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Mr. W. BRAY, Chemist, Glasgow, writes—"They are everything that can be desired, and are greatly admired by all who see them."

Mr. D. D. DEANS, Chemist, Melrose, writes—"Am immensely pleased with these new hand hottles: they are really magnificent: there is no comparison etween them and the old shop rounds as regards either price or appearance, and then they will never change, as the labels are literally indestructible."

"Messes, FRAZER & GREEN, Glasgow, have much pleasure in testifying to the satisfaction they have had in the use of these bottles, which have een in their Charing Cross Branch for fully two years. The facility with which they can be kept thoroughly clean without possibly injuring the labels an only he appreciated by practical experience."

Mr. ALEX. KINNINMONT, F.C.S., Pharmacentical Chemist. Glasgow, writes—"I have had these bottles in constant use for over four years and in confidently recommend them for their clean and brilliant appearance and durability. They are also safer to use than the ordinary labelled hottles, as, rom having the name of the contents all in front in two lines, there is much less danger of mistake."

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TESTIMONIALS

"Glasgow, July 21, 1879.—I my hranch establishment r over four years, and can conently recommend them for their au and hrilliant appearance didnahility. They are also fer to use than the ordinary belled bottles, as, from having a name of the contents all in ont in two lines, there is much is danger of mistake.—ALEX, NNINMONT, F.C.S., Pharmaceural Chemist." N.B.—Mr. Kinham nt has since furnished his uth Portland Street Shop with

in rotation Street Shop with see hottles.

'Melrose, July 22, 1879.—Am nensely pleased with these new and bottles; they are really magicent; there is no comparison ween them and the sale. ween them and the old shop mds as regards either price or pearance, and then they will wer change, as the labels are perally indestructible.—D. D.

rally indestructible.—D. D. ANS, Chemist."
Glasgow, August 6, 1879.—
e new Recess Labelled Bottles
or new Pollokplied by you for my Pollok-

phet by you for my Follok-elds Branch, are everything t can be desired, and greatly admired by who see them. They so much superior in earance and design to old style that I pnrre-fitting my press here with them.-

Is here with them.—

LIAM BRAY, Chemist, Paisley Road."

Glasgow, Angust, 1879.—We have much pleasure in testifying to the faction we have had in the use of these bottles, which have heen in Charing Cross Branch for fully two years. The facility with which can be kept thoroughly clean, without possibly injuring the Lahels, only he appreciated by a practical experience of their use.—Frazer & EN. Chemists to the Oneen."

only ne appreciated by a practical capetics.

Sex, Chemists to the Queen."

Blasgow, January 5, 1880.—With the Recess Labelled Bottles you suplime, I fitted up the surgery of the s.s. Orient, lately built on the Clyle, cost of £150,000—the largest vessel in the world except the Great ern, and the most exquisitely fitted passenger ship afloat. I am just eept of a note from the Superintendent of Stores and the Surgeon, ein hoth express their highest satisfaction with them, and I may add they are indeed 'perfect models.'—J. WALLS WHITE, M.D., Morrison

it."

ilcnsbnrgh, March 10, 1880.—The Patent Recess Lahelied Bottles sent me for my new shop are magnificent. Their appearance is everystone could desire, and they are so handy to use, the eye catching the e label at once. I think every chemist should dispose of his old es, and go in for the new oncs at once. The Glass Labels yon also for my drawers are a great improvement on the old oncs.—HENRY EMELL, Chemist, West Clyde Street."

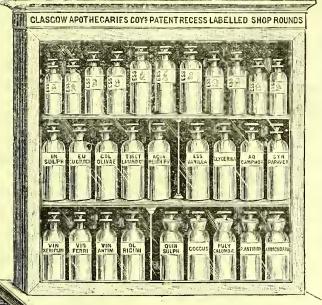
lellshill, March 10, 1880.—I am much pleased with the Patent Recess lled Bottles, and consider them a great improvement on the old style. I require more bottles I will certainly order them.—William Law-Chemist."

Chemist."

esmahagow, March 10, 1880.—I am greatly pleased with the Patent is Labelled Bottles which I hought from you. They are very pretty, orks are easily moved, and very well fitted. The Labels, however, are reatest improvement, especially for Acids, Oils, Syrups, and many ures which soon efface or destroy the old styles. It appears to me they cannot get effaced, and will keep their distinctness and heauty exton-Stewart, March 10, 1880.—I am very much pleased with the It Recess Labelled Bottles. They not only look well, but are very kept clean, and in my opinion in every way superior to the old style tles. They only require to be known to command a very ready sale. smahagow, March 10, 1880.—I am greatly pleased with the Patent f

des. They only require to be known to command a very ready sale.

MACCREATH, Chemist."



TESTIMONIALS. "Campheltown, March 11,1880.
I am thoroughly well pleased with the Patent Recess Labelled Bottles I had from you lately.
They are heautiful to look at—
attracting the attention of the
most unobservant, and ealling forth the most landatory remarks. The writing on the labels is much more distinct than that of the old white ground and in two lines, thus keeping every letter in full view, while the value of the coverview, while the value of the covering of glass as a protection can hardly he over-estimated. The stoppers are well ground, thus preventing loss from evaporation, Altogether, I think these Bottles are about perfect.—ALEX. EARTON, Ch. mist."

"Paisley, March 11, 1880,— he few New Labelled Reecss The few Rounds had from you are both Rounds had from yon are both bandsone and handy for use, and my old shop bottles cut a sorry figure on the shelves heside them.

—JAMES BUCHANAN, Chemist."

"Airdrie, March II, 1880.—I am much pleased with the Patent Recess Label'ed Bottles which I had from yon. The labelling is elear, always hright, and cannot be rubbed off, tarnishel, or

ruhbed off, tarnished, or destroyed, without breaking the glass. recommend them to anyone about to fit up drng

shop as being a great improvement in style and finish on any bottle hitherto in use by druggists.—John Harvie, Chemist."
"Ilfracombe, March 11, 1880.—I have almost entirely refitted my shop with your Patent Recess Labelled Bottles, and am much pleased with the result. They are greatly admired by all who see them.—I consider them for result. They are greatly admired by all who see them. I consider them far superior to the old style in neatness and elegance of appearance, and the advantage of having an indestructible label is apparent to all .- A. SMITH,

Wishaw, March 12, 1880 .- I am much pleased with the Patent Recess

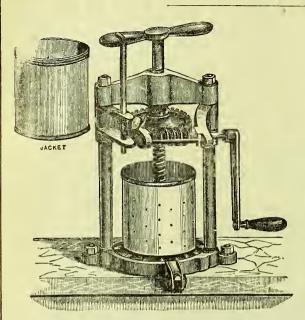
"Wishaw, March 12, 1880.—I am much pleased with the Patent Recess Perfume Bottles I had from you. The Vignettes are quite a work of art remarkable alike for their elegance and taste.—T. B. MACKABLANE, Chemist." "Dumharton, March 15, 1880.—The Recess Perfume Bottles I had from you look so well that I purpose soon replacing my shop bottles with your New Recess Shop Rounds, as they have so much tetter an appearance, combined with the indestructible label.—COLIN CAMPBELL, Chemist." "Pollokshields, March 16, 1880.—The Patent Recess Labelled Bottles, a wonderful variety of which may be seen at Glasgow Apothecaries Hall, Virginia Street, City, are a very deel'ed improvement upon those formerly in use as dispensing bottles. They are extremely convenient in form for easy and rapid manipulation, are musually legible from the clearness of the letters and the concentration of the words, and are as a whole ornamental in no small degree, while in certain cases they are admirably artistic. Dispensing chemists must feel it a comparative pleasure to handle and

Dispensing chemists must feel it a comparative pleasure to handle and work with the new bottles.—ROBERT BROWN, M.D."

'Fdinburgh, March 16, 1880.—The few Recess Glass Latelled Bottles you supplied are really very handsome. They are quite a set-off to the counter, and command the admiration of my customers.—Thos. SYMINGTON,

"Londonderry, March 27, 1880.—The Patent Recess Lahelled Bottles ha e given the ntmost satisfaction. As shelf furniture they are a decided improvement on the old style. For their finished and effective appearance, indestructibility of lahel, and uniformity of make, although costing little more, I consider them werth trehle the price of the old bottles; they are very attractive, and I have frequently to hand one of them to a customer for inspection. A medical man who dropped in to see them says they are very superior to anything he has seen."—HENRY TAAFFE, Chemist, Waterloo Piace." "Londonderry, March 27, 1880.-The Patent Recess Labelled Bottles

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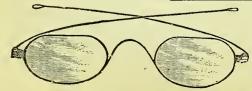
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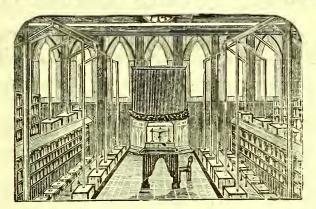
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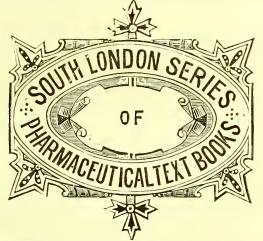
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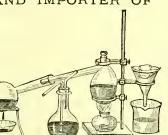
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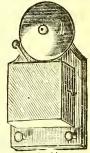
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TO COMMERCIAL TRAVELLERS calling on Chemists and Grocers in London and the Provinces.—Wanted, a Traveller for Isinglass; good commission. Address, A. B. C., care of F. Franklin & Co., 6 Great Tower Street, London, E.C., stating present engagements and district covered.

DENTAL PUPIL

A DENTIST in large practice, holding a Hospital Appointment, has a vacancy for a pupil; a well-educated respectable Youth would be taken without a premium. Address, "Dens," Enderley, Malvern.

WANTED immediately, a Junior Assistant for a General Retail and Prescribing Business; one capable of being left in occasional charge; good references and recommendations indispensable. Apply, T. Clarkson, Chemist, West Hartlepool.

THE ADVERTISER requires a Young Man as Traveller; must be acquainted with the General Mixed Business of a Chemist and Druggist. Address, stating salary required, &c., T., care of Messrs. Symes & Co., Hardman Street, Liverpool.

WANTED, the beginning of next month, an Assistant to take the management of a branch shop, and to assist in the other; one that can extract teeth; good references; state salary, height, and age. M., 31 Butcher Street, Portsea, Hauts.

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SSISTANT to Chemist or Surgeon; out-door. H., Victoria Villas, Southern Road, Basingstoke.

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M. A. K. TAYLOR, Temporary Manager, Removed to 31 Crane Grove, Highbury, N. Terms, &c., as before.

AS ASSISTANT (out-door); wholesale or retail, or to manage a hranch; good general experience; not afraid of marks A good general experience; not afraid of work; good references; age 25. G. W., care of S. Daniel, Pharmaceutical Chemist, Ramsgate.

A S ASSISTANT, or Manager of a Branch; out-door preferred; 13 years' experience in mixed country businesses; can prescribe and extract etc. J. H. Bycroft, Belleau, Alford.

AS JUNIOR, in good Dispensing establishment; passed Preliminary; over 2 years' experience; time required for study; good home more object than salary. Laffere, Hatherleigh.

L OCUM TENENS, or Temporary, by the day, week, &c.; registered chemist and dentist; references forwarded; usual terms; town or country; long and varied experience. J. W. Lomas, 1 Jasmine Villas, Heber Road, Lordship Lane, S.E. Disengaged 21st inst.

TRAVELLER or SALESMAN.—Advertiser, having first-class Recipes for Horse and Cattle Medicines, Toilet Requisites, &c., given him by his past employer, the late C. V. Wilcockson, of 27 Long Row, Market Place, Nottingham, is desirous of an Engagement where the above could be made the medium of an increasing trade; undeniable references. Address, "Pharmacy," 83 Fleet Street, London, E.C.

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WANTED by the Advertiser, whose engagement with a leading house in Ceylon terminated on the 31st May, a Situation as Dispenser or General Assistant in a good house abroad; India or China preferred. For full particulars, apply "Chemicus," care of Messrs. Geo. Curling & Co., 30 St. Mary Axe, E.C.

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By order of the Executors of the late William Mather.—To Merchants, Warehousemen, Druggists' Sundriesmen, and others. Corner of Farringdon Road and Cross Street. Highly important, modern, substantial stone and brick built Freehold Warehouse Property, occupying one of the finest sites in this desirable and rapidly-improving locality.

the finest sites in this desirable and rapidly-improving locality.

MESSRS, TATHAM are instructed to SELL by AUCTION, at the MART, Tokenhouse Yard, Bank, on MONDAY, June 28, this magnificent pile of BUILDINGS, occupying a very prominent position at the corner of Farringdon Road and Cross Street, to both of which thoroughfares the property has very extensive frontages. The premises, which will be sold with possession, consist of a spacious basement, ground, and three upper floors, all of which are lofty and exceedingly well lighted, and contain a total floor space of 17,750 square feet; they were especially huilt for carrying on the business of a druggists' sundriesman, but are suitable for many different trades.—Particulars and plans are now preparing, and in due time may be had of Messrs, Bullock & Worthington, solicitors, Manchester; Messrs. Chester, Mayhew, Holden & Broome, Staples Inn, W.C.; and of Messrs. Tatham, Auctioneers and Surveyors, 34 Essex Street, Strand.

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ı	ıf. I	$Ros \approx A$	cid.	Conc.			2	6	per ll	b. Ext.	Ergot	æ Liq.				4/6	per lb.
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	7)	,,	for the	Nurser	y, fron	m 25 t	o 40	to the lb.	• • •		,,	20/0,	25/0 and 1	10	0
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	,,	Roug	h, suita	able for	Slates	s, &c.		• • •			per lb.	4/0,	-6/0 and 0	8	0
	"										per lb. 8	/0, 12/0,	16/0 and 1	0	0
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103 Murray Street, New North Road, London, N.

TRADE MARK MSTEVENS

P. A. STEVENS, CHEMIST AN P. DENTIST, 70 HYDE ROAD, HOXTO LONDON, N., S-JE Proprietor and Maker the SILVERY WHITE GUTTA PERCH ENAMEL for Stopping Decayed Teeth.

REGISTERED No. 3745. P. A. S. is prepared to supply the above to Who sale Ilouses and Chemists, in any quantity, with their name stamped up each stick, cut any length.

To be obtained of all Wholesale Houses. Price List and Samples sent post free Special Terms to Shippers.

SPECIAL NOTICE.—The words SILVERY WHITE GUTTA PERCENAMEL are registered as a Trade Mark, and will be protected.

BRUSH HINDE'S

Silvered Wires Rings of Bristle. and

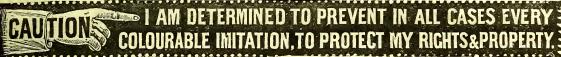
Admittedly the only perfect Wire Brush in the market. Made in a variety of prices and patterns. Beware of other Wire Brushes



which, with TINNED Wires, claiming the speciality of t "Silvered Wire Brush," without its value and advantages.

Patronised by H.R.H. the Prince of Wales; H.I.H. the late Louis Napoleon; the Rt. Hon. W. E. Gladstone, M. CHEAPER AND MORE DURABLE THAN BRISTLE; PLATED WIRES, AND WILL NOT SCRATCH. Houses in London, Birminghan had of all Important Wholesale TO

Manchester, and Glasgow.



ONCE FOR COUNTER WINDOW, STA

0 off

£100 Orders.

Can be Assorted and Delivered in Four Parcels of £25.

IMPORTANT NOTICE. Wholesale

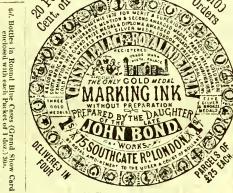
Per Cent. off £100 Orders.

imon Pleas Division, Jan. 15. ings before Lord Coleand Justices Grove and Denman.)

HICKISSON C. ASHTON. fendant moved for a TRIAL, application

USED. is action, which was ght for the alleged in-ement of the Plaintiff's e Mark, was tri d at the sittings at Guildhall, e Mr. Baron Cleasby, the verdict was for the tiff with damages.

64. Bottles in Card losec Wrapper 1 dozen, (Handsome



The PLAINTIFF was the HUSBAND of the DAUGHTER of the late JOHN BOND, the PROPRIETOR of BOND'S CRYSTAL PALACE MARKING INK. The Befendant was a Drugglst and he had rold a Marking Ink manufactured by a Mr Murphy and the Plaintiff complained that the Labels on Murphy his Labels. A TRADE MARK is not only a SYMBOL of CHARACTER, but the general a persuace of a label, whereby the public would be deceived. Their Lordships this morning, after consulting Mr. Baron Cleashy on the matter, refused the rule, that learned judge having expressed his satisfaction with the verdict.—RULE REFUSED.—I'vid daily papers.

Messre, Wills & Watts, Solicitors for the Plain if, Doctors

Mesers. Wills & Watts, Solicitors for the Phin iff, Doctors' Commons, E.C.

They the season to the open to the property affiliarit And the divided Sell Collectively

of,

GLASS CASES INCLUDED & 1s. Pedesta

Can be

20 off £100 Orders.

Delivered Assorted in Four Parcels of

DETERMINED TO PREVENT IN ALL CASES EVERY COLOURABLE IMITATION, TO PROTECT MY RICHTS&PROPERTY.

Wholesale

4s. per doze

WHITAKER & GROSSMITH'S PURE WHITE CLYCERINE SOAP.

Richly perfumed, and guaranteed to contain the necessary quantity of GLYCERINE for effectually imparting to the SKIN the softening and healing properties for which it is so justly famed. 1s. 6d. Boxes of Three Tablets, 12s. per Dozen Boxes.

SELECT TOILET PREPARATIONS	s, extensively increasing in demand	l, which attests their excellent qualit	у.
TOILET SOAPS, Per doz.	BOUQUETS. Per	r doz. POMADES, &c.	Per doz.
Cent-Fleur (copyright)2/6 Boxes of 3 tablets 20/	Cont Claus Live Salls	Cent-Fleur (copyright) 8/, 12	& 20
	Star of India In Glass	1741 Potroloum Pomodo 19	2. 12
Sandringham ,, 1/6 ,, 12/6	White Lilac or	Brilliantine 8 , 12 Anglo Fau de Cologne 8	& 20
Eucalyptus Oil " 1/6 " 12/	Birthday Sprinkling	migio Lau do obrogno	
	Hawthorn Bottles.		& 20
Semi-Cut Bars ,, 1 Bars of 6 kinds 8 6	White Violet (and 50 others)	White Cherry Tooth Paste 8/	& 12
	lers executed through Wholesale House		

WHITAKER & GROSSMITH, Wholesale Perfumers, 120 Fore Street, City, London.

ROUND AND OVAL CHIP AND WILLOW BOXES, ROUND, OVAL, AND SQUARE CARDBOARD BOXES

Guaranteed our own Manufacture

ORDERS EXECUTED PROMPTLY, AT VERY CHEAP RATES, FOR HOME AND EXPORT.

AYRTON & SAUNDERS

149 & 153 DUKE STREET, LIVERPOOL.

BURROUGH'S

SPIRITUS RECTIFICATUS, P.B.

CHEMICALLY PURE SPIRITS OF WIND

The Best English Grain Spirit, Free from Fusel Oil.

56 over proof, 20s. per gallon; 60 over proof, 20s. 6d. per gallon; less 6d. per gallon for five gallons. Lower quotations for quantities Case on delivery or with order. Country Orders must contain remittance or reference to London House

CALE STREET DISTILLERY, LONDON, S.W.

Also Duty Free for Exportation.

THE UNIVERSAL TOOTHACHE SYRINGE

Retail, 6d. each.



Is a great improvement upon the "DENTAL SYRINGE," as the fluid is contained in a glass bulb, which enables its contents to be seen, also prevents liability to evaporation through long keeping or exposure.

THE UNIVERSAL CORN AND WART PENCIL

1 doz. mounted on a handsome Illustrated Show-Card, Retail, 6d. each; Wholesale, 3s. 6d. per doz. It is especially ada for Expor. Trade, and may he safely sent to the hottest climates, as each glass tube is hermetically sealed and enclosed in a cardboard case.
N.B.—Both the above are exempt from Stamp Duty by permission of the Board of Inland Revenue.

CONCENTRATED WATERS.—One Ounce of these Waters added to Forty Ounces of Distil Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the Br Pharmacopecia, and free from all Chemical impurity. They are prepared to supply a want long felt by Chemists and Medical Men, and by their fresh supply of any of the Medicinal Waters may be obtained at a moment's notice. They are not affected by age in any climate, N.B.—Used in proportion of one part to thirty-two of water they represent the Medicinal Waters of the United States Pharmacopecia.

Per lh.

Aqua Anethi, Concent. 4/0

Anisi, 4/0

Camphorae , 4/0

Carui , 4/0

The above are put up in Bottles of ½lh. or 1lh. and upwards. each of which has the Inventor's Protection Label over

Wholesale Agents—Hearon & Co., Maw, Son, & Thompson, Lynch & Co., London; Evans, Sons & Co., Back, Edinburgh; Foggitt, Thirsk; Goodall & Co., Leeds; Clarke, Bleasdale & Co., York; McKesson & Robbins, New York. Special to for large quantities may he had from

B. ROBINSON, Operative Chemist, Distiller and Brewer of British Wines, Mancheste



BEST WHITE FLINT FLATS, for Dispensing, &c. — $\frac{1}{3}$ 1 $\frac{11}{4}$ 2 3 4 6 80z. 46 5/6 6/ 6/6 7/6 8/6 10/6 14/gr. Stoppered—16/ 17/6 18/ 20/ 22/ 24/ 30/ 34/ " ROUND SHOULDER KALI BOTTLES— $\frac{1}{3}$ 1 $\frac{11}{6}$ 2 3 4 6 8 10 12 16 2002, $\frac{3}{6}$ 4/3 4/6 5/6 6/6 7/8 /11/1 5/5 18/ 20/ 23/ gr. Fitted with Box Tops— $\frac{13}{15}$ 20/ 24/ 28/ 30/ 33/ $\frac{3}{15}$ 7 $\frac{1}{15}$ 20/ 24/ 28/ 30/ 33/ $\frac{3}{15}$ 7 $\frac{3}{15}$ 8 $\frac{3}{15}$ 9 $\frac{3}{1$

BEST GREEN DISPESSING BUTLES—

3 4 6 8 8 132 1602.

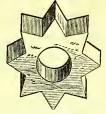
FEEDING BOTTLES. Alma Mater, &c...Straight
White Glass, 12 gross, fitted complete with Box
Tops, 30/ gross; 1/k kind, fitted complete, each in
Box with Tube Brush, 50/ gross._Bent, 1/k kind,
67/ gross; 64, fitted with Box wood Tops, 32/ gross.

All Fittings for Feeding Bottles sold separately and at POMADE BOTTLES, fitted with Box Caps—20z., 12/, 30z., 16/, 40z., 18/ gross.

Special Quotations given for any kind of Bottles.

SON'S

ARNICATED



OR WHITE SPREAD

REGISTERED.) They will be found to possess greater advantages over all other Plaisters hitherto produced. The chief qualities depend upon their superior adhesiveness, being composed of very adhesive ingredients, and, owing to their shape, are not so liable to be drawn off with the sock or stocking.

PECIALITIES FOR THE SEASON.



SNOOK & SON'S "INSECTO," the most effectual exterminator for all kinds of Insects, ground from the finest selected Dalmatian flowers, and guaranteed pure. 3d., 1s. 9d.; 6d., 3s. 6d. per dozen. Each box is fitted with a perforated zinc top, so that it can be used as a dredger. One dozen to any Wholesale House in London for 24 or 48 stamps. Special quotations for large quantity.

Snook & Son's New Brighton Bath Gloves. Sponge Gloves are made with thumbs, and filled with Sponge; will be found the most perfect substitute for the Sponge yet introduced. 6s. 6d. per dozen Gloves.

Snook & Son's Pure Starch Violet Powder, richly perfumed, in handsome wrapper, as per illustration. One dozen, in a glass-top box, 1-lb., 30s.; 1-lb., 60s. per gross.

Snook & Son's 1d. Violet Powder, Pure Starch, each Packet with gnarantee, in Show Boxes for the counter, as per illustration. Pergross, 5s.

Snook & Son's ld. Pure Fuller's Earth, each Packet with guarantee, packed in same style as the Violet Powder. Price per gross, 4s. 3d.

Snook & Son's 3d. and 6d. Fuller's Earth, in Round Fancy Gold Boxes, one dozen in a box. 3d., 18s.; 6d., 36s. per gross.

Any of the above goods may be had through all Wholesale Houses. Price List or Samples free per 10st on receipt of business card.

376 CITY ROAD, LONDON, E.C.



S. MAW, SON & THOMPSON'S BATH GLOVES, RUBBERS, &c.

Gloves. Straps. Pads. Gloves. Straps. Pad CALEFACIO OF BADEN, No. 1, soft REVERSIBLE, No. 1, one side soft Brown . . per doz. $6/4 \ 10/8 \ 6/0$ Brown, the other best White Turkish . per doz. 7/0 12/0 6/ CALEFACIO OF BADEN, No. 2, hard REVERSIBLE, No. 2, one side hard Brown . . . per doz. $6/4 \ 10/8 \ 6/0$ Brown, the other White Honey-CALEFACIO (the U.S.), Striped soft . . per doz. 7/0 12/0 6/ . per doz. 6/8 11/4 6/0 "THE HAMMAM" TURKISH BATH, Honeycomb, white, per doz. 5/4 10/8 5/6 per doz. 12/0

TURKISH THIN WHITE GLOVES, per doz. 4/- PADS, per doz. 4/-Ditto SUPERIOR QUALITY 5/-5/6

12 ALDERSGATE STREET, LONDON

RIMMEL'S NEW SANITARY APPLIANCES.

PIMMEL'S AROMATIC OZONIZER, a fragrant powder which, simply spread on a plate apartments or places of public resort, evolves the refreshing and healthy emanations of the Pine apartments or places a quantity of Ozone, the great air purifier. It is in use in the principal Hotels, Clu and Theatres, and also in the Saloons and Cabins of several Lines of Steamships. In 4 oz. tins, 1s.; by post 15 stamps; 1 lb. tins, 3s, 6d.; Spreading Plate, 6d.

PIMMEL'S OZONIZED EAU DE COLOGNE, LAVENDER WATER, or FLORI WATER, sprinkled on a pad hung up in the air, destroys bad smells and noxious effiuvia in sick roclosets, &c. It is recommended also to be used on the handkerchief when attending crowded places, visine sick, or travelling by land or sea. Price, 2s. 6d. and 5s. per bottle; pad, 1s. A box containing a Tin Aromatic Ozon a Plate, a Bottle Ozonised Eau de Cologne, and a Pad, 5s.

PIMMEL'S NEW TRANSPARENT COAL TAR SOAP, combining the purifying properties of tar with refined qualities of transparent soap. Price, 1s. 6d. per box of 3 cakes.

N.B.—Those preparations have been submitted to the examination of eminent Chemists, who have certified their excellent effect. A deprospectus, containing certificates and testimonials, sent on application.

Sold by all Chemists and Druggists. The usual allowance to the Trade. Wholesale Price Lists sent on application to—

EUGENE RIMMEL, Perfumer to H.R.H. the Princess of Wales,

96 STRAND, LONDON.

WHITE AND SOUND TEETH.

JEWSBURY AND BROWN'S TOOTH ORIENTAL $\mathbf{PASTE}.$

This old-established and increasingly favourite Dentifrice has been Forty Years before the I is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

JEWSBURY and BROWN, CHEMISTS, MANCHESTER,

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is an od-Particular attention should be paid to this guarantee of genuineness, as numerous imitations ared Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Show Cards forwar receipt of address card, and directions for enclosure.

ESTABLISHED 1843.

HOMPSON & CAPPER,

WHOLESALE & EXPORT

DMŒOPATHIC CHEMISTS,

55 Bold Street, Liverpool,

AND

51 Piccadilly, Manchester.

NEW ILLUSTRATED PRICE LIST ON APPLICATION.

HOMPSON & CAPPER have recently purchased long-established business of HENRY TURNER & O., Manchester, which they now carry on under t rown name.

THOMPSON & CAPPER'S ENTIFRICE WATER

Is kept by T. & C.'s Agents throughout the world.

PRICE CARD ON APPLICATION.

HOMOEOPATHIC MEDICINES.

E. GOULD & SON,

Chemists by Appointment to the London Homocopathic Hospital,

HOMŒOPATHIC CHEMISTS,

59 MOORGATE STREET, LONDON, E.C.

CHEMISTS' COUNTER SHOW-CASES.

No. 1.

DIMENSIONS-

Length, 161 in.;

Breadth, 143 in.;

Height, back (with-

out flap), 9 in.; ditto

front, $7\frac{1}{2}$ in.



Case	No.	1	Price	£5	5s.
"	Ν̄ο.	la.	,,	2	10s.
11	No.	2.	,,	7	10s.
,,	No.	3.	,,	10	Os.
,,	No.	4.	22	20	Os.

Subject to Discount for Cash.

List of Contents, Wholesale

Prices of Medicines, Medicine Chests, &c.,

Post free to any part of the World.

Domestic Medicine Chests suitable for all Climates.

At. M. E. TOOMEY, Surgeon-Dentist, begs to direct attention to his recent invention in Dentistry, and America, whereby a perfect model of the mouth can be taken, together with the correct hite, in one operation, even by the patients themselves. To Invalids and persons residing at a distance requiring ARTIFICIAL TEETH this invention must of great value. The apparatus or Tray is of Metal, shaped to fit the inside of the mouth. It is made in three sizes, one of which in practice is found to suit every variety of mouth. Placed inside the Tray is composition of such a nature that in less than a minute after being hitern into it becomes sufficiently a nature that in less than a minute after being hitern into it becomes sufficiently and the composition of the mouth.

to suit every variety of mouth. Placed inside the Tray is composition of such a nature that in less than a minute after being hitten into it becomes sufficiently hard to prevent hinding or sucking, in withdrawing from the mouth. All that is required is that the Tray be steeped in hot water for seven minutes, then insert in the mouth, and bite firmly. The following woodcuts will show the simplicity of the apparatus.

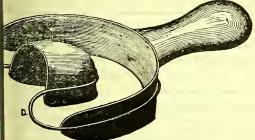


Fig. 1. The Tray empty.

RATHBONE PLACE,

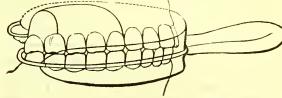


Fig. 2. The Tray in use.

OXFORD STREET, W.

JOSEPH GILLOTT'S
STEEL PENS.
Sold by all dealers throughout the World.

See page 17.

BEDDARD'S

SPRING & AUTUMN HEALTH SALINE.

Neatly put up in 6d. and 1s. Packets. Very Saleable.

BEDDARD'S

BELGRAVIA TOOTH PASTE.

A MOST EXCELLENT DENTIFRICE.

Handsomely put up in large Jars. ONE SHILLING EACH.

LIBERAL TERMS TO TRADE, SPECIAL TO SHIPPERS.

PREPARED ONLY BY

JOHN BEDDARD, 46 CHURTON ST., BELGRAVE ROAD, LONDON, S.W.

HE CONDY'S FLUID CO.

FALCON ST., LONDON, E.C.

(A. D. MITCHELL, Managing Partner)

Medicinal Uses: Important to Chemists and Medical Practitioners.

The Condy's Fluid Co. beg to state that their Condy's Fluid (Crimson) IS COMPOSED OF PERMANGANATE OF POTASH ONLY, in strict accordance with the Patent, an with the Standard Medical and Pharmaceutical Works and all published declarations of composition and to contradict the extraordinary and mystifying statement made by another manufacturer tha "GENUINE CONDY'S FLUID IS NOT AND NEVER WAS COMPOSEI OF PERMANGANATE OF POTASH."

The Supreme Court of Judicature having settled the question of the Right to Manufactur Condy's Fluid, Ozonised Water, &c., entirely in favour of Dr. Mitchell, the Company representing his interests beg to call attention to the above statement and to their reduced Trade Prices.

NTINUED REDUCTION E TRADE

THE CONDY'S FLUID CO., FALCON STREET, E.C., maintai the following Reductions in the Trade Prices of their genuin articles, which can always be relied upon as being of full strengt and perfect purity:-

CONDY'S PATENT FLUID (Crimson), 1s. size, 6s. per doz.; 2s. size, 12s. per doz.; 4s. size, 24s. per doz. CONDY'S PATENT OZONISED WATER, 2s. size, 12s. per doz.; 3s. 6d. size, 20s. per doz.

CONDY'S PATENT FLUID (Green), CONDY'S REMEDIAL FLUID, CONDY'S HEALTH POWDER, CONCENTRATED VINEGAR, &c., as before.

LIBERAL TERMS TO WHOLESALE AND EXPORT

N.B.—In ordering through the Trade, please NOTE THE ADDRESS, FALCON ST., and specify our artic at REDUCED TRADE PRICES, which are listed by all Wholesale Houses less their usual discounts. THEY Al MADE IN STRICT ACCORDANCE WITH THE PATENT, ARE UNIFORMLY UP TO STRENGTH, free from impurit and sediment, securely corked, and always give satisfaction alike to consumer and to dealer. THEY ARE GUARANTE BY THE ORIGINAL LABELS OF THE LATE FIRM WITH PRIZE MEDALS AWARDED AT INTERNATION EXHIBITIONS, the unwarranted use of which is a misdemeanor, and the right to which is confirmed to Company by Decree.

THE CONDY'S FLUID CASE.

FINAL DEFEAT of MR. H. BOLLMANN FAILURE AND EXPOSURE OF THE "TRAP TO CATCH CHEMISTS."

> COURT OF APPEAL, LINCOLN'S INN, Nov. 27, 1877. CONDY v. MITCHELL.

LORD JUSTICE JAMES (without needing to hear defendant's counsel) said—That such a suit should have been instituted at all was remarkable; but that, after the learned Vice-Chancellor's judgment, this appeal should have been brought on was particularly strange. Dr. Mitchad obtained his right by payment of a substantial money consideration, and Condy's Fluid and Condy's Ozonised Water were as much Property as the Plaintiff's. Having that right, Dr. Mitchell was entitled to set up the Condy's Fluid Company.

LORD JUSTICE BACGALLAY was of the same opinion. The style of the partnership had been "Bollmann Condy & Co.," and plaintiff set up in his own name of "H. Bollmann Condy." It was not necessary to consider whether he might have been restrained from so doing; he came into court with a very bad grace. To get evidence HE HAD RESORTED TO WHAT WAS, IN FACT, A TRAP TO CATCH CHEMISTS.

LORD JUSTICE THESIGER was also of that opinion; and especially as to the character of the plaintiff's evidence. A good de it seemed to him not admissible at all.

LORD JUSTICE JAMES: APPEAL DISMISSED WITH COSTS.

(REGISTERED.)

OSSILINE is a perfectly Pure Hydrocarbon Jelly prepared from Petroleum, purified by special processes. It cannot become rancid, hence Ointments and Pomades prepared with it will keep indefinitely.

> SAMPLES POST FREE.

RICES -In 7 lb., 14 lb., & 28 lb. Tins, 10d. per lb.; in 56 lb. & 112 lb. Drums, 9d. per lb. Tins and Drums free.

SOLE MANUFACTURERS:

IVANS, SONS & CO., LIVERPOOL.



EVANS, LESCHER & WEBB, LONDON.

H. SUGDEN EVANS CO., MONTREAL, CANADA. &

B.—The Manufacturers thank the Members of the Medical Profession and Chemists and Druggists for their appreciation of this article, and wish to inform them that they have erected additional plant to meet the increased demand. FOSSILINE needs no praise, since the immense sale which it has met with, and the sudden fall in the high prices of other articles of a kindred nature, speak sufficiently of its merits.

AND

GLYCERINE ARTICLES.

CHEMICALLY PURE GLYCERINES.

Sarg's Double Distilled Glycerine, Chemically Pure,
Beaume, in Cases of Four 56-lb. Tins each; Twenty 5-lb. Bottles, Fifty 1-lb. Bottles, and 100 ½-lb. Bottles, with Registered Label.

Sarg's Double Distilled Glycerine, Chemically Pure,

1-lb. and 1-lb. Bottles, should have a place in every nursery on account of its salutary action on the heads of children, relieving them from dandruff and the roughness of the scalp they are so commonly subject to.

Sarg's Distilled Glycerine, Chemically Pure, P.B., 29° Besumé, in Cases of Four 56-lb. Tine each.

Crude Glycerine, in Bulk.

TOILET GLYCERINE ARTICLES.

Transparent Glycerine Soap,

registered Packets of three Tablets, 1s. Warranted to tain 33% of the purest Glycerine. Also in round Tablets, three in a Box; and in oval Tablets in paper.

Liquid Glycerine Soap,
t preventive against chapped hands, 1s., and unrivalled
imparting softness to them, and rendering them clean and
te. See Testimonials of Professor J. von Liebig, Baron;
and of Professor F. Wöhler.

Scented Glycerine,

In Bottles at various prices. Either pure or diluted with water, this Glycerine is very successfully used for softening the skin, preserving the complexion, and preventing the very unpleasant roughness of the skin in cold weather.

Glycerine Cream

Is quite unequalled for imparting a fresh and healthy colour to the lips and keeping them from chapping.

Sarg's new Carbolic Glycerine Soap, In Boxes of three Tablets, is highly recommended as a most effective disinfectant.

Sold by all Wholesale Chemists and Druggists. Sole Wholesale Agents for the United Kingdom and the Colonies: HMEDES, ERBSLOH & CO., 6 CASTLE STREET, FALCON SQ., LONDON, E.C.; 14 MARKET BUILDINGS, FLINDERS LANE, MELBOURNE: 26 O'CONNELL STREET, SYDNEY.

NOVELTY! NOVELTY!

SALEABLE NOVELTY OF THE YEAR BEST, CHEAPEST, AND MOST THE

PATENT

METAL

STIDE

BOXES

8s. PER GROSS.

SUBJECT TO USUAL DISCOUNT.

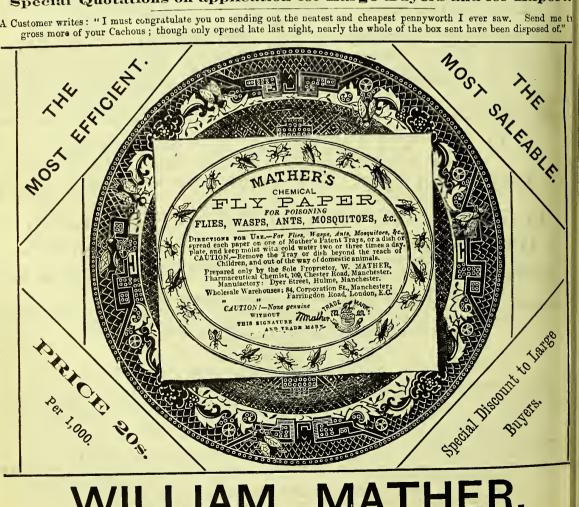


PER GROSS.

SUBJECT TO USUA DISCOUNT.

Special Quotations on application for Large Buyers and for Export.

A Customer writes: "I must congratulate you on sending out the neatest and cheapest pennyworth I ever saw. Send me gross more of your Cachous; though only opened late last night, nearly the whole of the box sent have been disposed of."



MATHER, VILLIAM

DYER STREET, HULME, MANCHESTER





Index to Advertisements.

June 15, 1880.

CHARGES FOR ADVERTISEMENTS.

Whole Page, £5. Half Page, £2 15s. Third Page, £2. Quarter Page, £1 12s. Sixth Page, £1 5s. Eighth Page, 18s.

Special Rates for Wrapper and pages preceding and following Literary matter, also pages facing inside of Wrapper. The above Scale of Charges will be subject to a discount of 10 per cent. upon 7 and 20 per cent. upon 13 insertions, prompt quarterly payments.

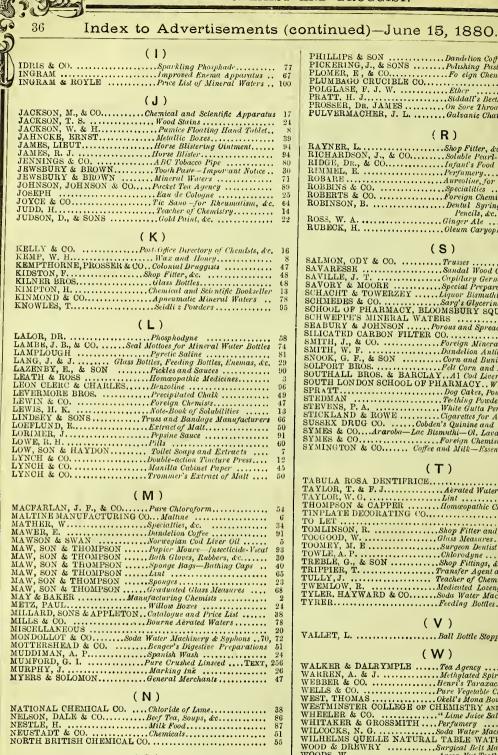
An order for 13 insertions means 12 in the Chemist and Druggist and I in the Chemists' and Druggists' Diary. The same rule also applies to an order for 7 insertions, or to an order for insertion until countermanded, if such order is in force in October of any year.

All Advertisements intended for insertion in the current Month must be sent to the Publisher of the Chemist and Druggist on or before the 12th, except Employers' and Assistants' Advertisements, which can be received up to 10 a.m. on the morning previous to publication.

H	(A)	(D)
П		DARLING, W Dentifrice
ı	ILEN & HANRIBYS Cod-Liver (nl. Matt Extract, Jujabes,	DARTON, F., & CO
П	$Chrisma$, $ac_{++++++++++++++++++++++++++++++++++++$	DAY ENPORT & CO
ı	MALVEIGAL SANITARY INSTITUTION TEXT, 256	DENOUAL, J
ı		DINNEFORD & CO. Solution of Magnesia
ı	APOLITINARIS CO. Hangadari Angala Ranol De Sons Enemas – Broachtis Kettle 6 SSISTANTS WANTING SITUATIONS 19 SSISTANTS WANTING SITUATIONS 98	DOBELL, DR Wirks on the Heart and Langs. DOWS, CLARK & CO. Soda Water Muchinery DUNGAN, FLOCKHART & CO. Chloroform, &c
H	YRTON & SAUNDERS Willow Boxes 28	DUNCAN, FLOCKHART & CO Chloroform, &c. DUNN & CO
ı	(0)	DOING OF COMMENCE
1	(B)	(E)
H	AILEY, W. H., & SON Trusses 40	EDWARDS & BRADLEY Patent Bed Convenience, Bandages, &c.
ı	ALIET, W. H., & SON Prasses and Export Drug ists 52 ALL, HOBSON & CO. Foreign Chemists 47 MITERIE TENDALL & COV Innovent New Works 13	ELLIS & SON
1		EMPLOYERS WANTING ASSISTANTS
H	ARKER, E	ENO Frait Sall Frakt Sall Vegetable Parchment and Skins
Н	ARNETT & FOSTER Soda Water Machinery, &c 12, 100	EVANS, H. S., & CO. Wholesale Druggists EVANS, J. Extract of Malt EVANS, LESCHER & WEBB New Premises EVANS, LESCHER & WEBB Fossiline EVANS, SONS & CO. Wholesale Druggists
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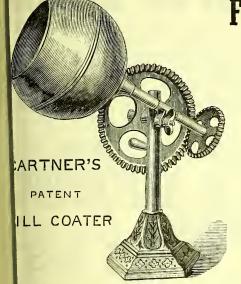
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1\(\frac{1}{2}\) in., length 3 in., 1/6; 4 in., 2/; 4\(\frac{1}{2}\) in., 2/; 5 in., 2/6; 5\(\frac{1}{2}\) in., 3/; 6 in., 3/

1\(\frac{1}{2}\) in., length 4 in., 2/; 4\(\frac{1}{2}\) in., 2/6; 5 in., 3/; 5\(\frac{1}{2}\) in., 3/6; 6 in., 3/6;

6\(\frac{1}{2}\) in., 4/; 7\(\frac{1}{2}\) in., 4/6; 8 in., 4/6; 9 in., 5/per doz.

2 in., length 4 in., 2/6; 4\(\frac{1}{2}\) in., 3/6; 5 in., 3/6; 6 in., 4/6;

6\(\frac{1}{2}\) in., 4/; 7\(\frac{1}{2}\) in., 4/6; 8 in., 4/6; 9 in., 5/per doz.

2\(\frac{1}{2}\) in., length 4\(\frac{1}{2}\) in., 3/; 5 in., 3/6; 6 in., 4/; 6\(\frac{1}{2}\) in., 4/6;

7 in., 4/6; 7\(\frac{1}{2}\) in., 5/; 8 in., 5/; 9 in., 5/6; 10 in., 6/per doz. Diam. 1 in., length 3 in., 1/per doz.

Diam. 2½ in., length 4½ in., 3/; 5 in., 3/6; 5½ in., 3/6; 6 in., 4/; 6¾ in., 4
7 in., 4/6; 7½ in., 5/; 8 in., 5/; 9 in., 6/; 10 in., 6/6 per doz.
2½ in., length 6 in., 4/6; 6½ in., 5/; 7 in., 5/; 7½ in., 5/6; 8 in., 5
9 in., 6/6; 10 in., 7/; 12 in., 8/ per doz.
3 in., height 6 in., 5/; 6½ in., 5/6; 7 in., 5/6; 7½ in., 6/; 8 in.,
9 in., 7/; 10 in., 7/6; 12 in., 8/6 per doz.
3½ in., length 6 in., 5/6; 6¾, 5/6; 7 in., 6/; 7½ in., 6/6; 8 in.,
9 in., 7/6; 10 in., 8/6; 12 in., 10/ per doz.

FLAT, Numbers with all with Ears except those

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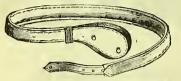
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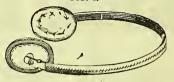
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FIRST PRIZE (SILVER MEDAL) FOR TRUSSES AWARDED BY THE WORSHIPFUL COMPANY OF CUTLERS OF THE CITY OF LONDON, MAY 1879. FIG. 4.







., under-straps to button

CAPS. ETC. Cotton.

TRUSSES.			
Circular Trusses, single, as Fig. 1, basil and chamois or 1	basil and		
moleskin	per doz.	£1 1	(
Circular Trusses, double, basil and chamois or basil and		_	
. 117 1. 21. 2	per doz.		(
% with extending backs Salmon & Ody's Expired Patent, single, Fig. 4	,,	2 14	(
2	"	1 10	(
Moc-Main Lever, single double, Fig. 5	",	3 0	
Moc-main Lever, single	each	0 8	
Coles's Expired Patent, single	• • • • • • • • • • • • • • • • • • • •	0 13	
double	•• ,,	0 5	-
Scrotal Trusses, basil and chamois or moleskin, single	• • ,,	0 10	
Jan-11-	•• ,,	0 4	- 1
" " double	** ,,	0 7	•
SUSPENSORY BANDAGES.			
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5.	,,		Bags bound			с				4
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ELA	1211	C S	OCI	KIN	IG:	5,	Kľ	٧E	E-
Manufactu port, and w hot climate b in the Marke	arrani etter i	ted to	stand	a	\$	Silk			upe Sill
in the market				- 1	£	5.	d.	£	5.
Stockings			p	air	0	9	0		13
Knee-caps			•••	٠,	0	6	0	0	9
Calf-pieces					0	6	8	0	9
Socks					0	5	0	0	7
Wristhands				"	0	9	0		

6. Silk Oxonian, superior quality, bands of buff jean, with Grawing-strings
Silk Bags, to button on, with tape under-straps...

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See "CHEMIST AND DRUGGIST," December 15th, 1874.

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A perfectly tasteless preparation, specially adapted for the peptonization of milk, arrowroot, and other mucilaginous articles of data general use in the sick-room. Dose, I drachm,

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This (the ORIGINAL) preparation was introduced by Messis. SAVORY & MOORE in 1867, and advertised in The Lancet in 1864 of attempt was made to imitate it until 1814, when notices of another preparation appeared in several Medical Journals.

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Solutions of the Hypophosphites of from (Ferrons Sa't), Limc, Magnesia, and Soda, obtained without the aid of sugar or strong n acids, which have been used with marked success at the above-named Hospital as Tonic, Antacid, and Stomachic remedies of islar value in the treatment of the Discasses of Children, and free from the objectionable characteristics of the saccharine "Chemical Food," a he uncertain composition of "Steel Wines,"—Vide British Medical Journal, March 27th, 1880.

Dose—of the Liquor, minims 15 to 60; of the Vinnm, 1 drachm; to be d luted.

USED IN THE ROYAL NURSERIES The BEST FOOD for INFANTS. ONLY FOOD specially prepared FOR INFA S. The Most Perfect Substitute for a Healthy Mother's Milk.

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The annual meeting of the Pharmaceutical Society ought forth nothing of special interest. The election for e Council resulted in the return of the twelve retiring embers who offered themselves for re-election, together th Messrs. Andrews and Radley as new members.

The meeting of the Trade Association was very thinly a nded, but some good work was reported. The following anges were made on the Executive Committee:—Messrs. Harrison (Sunderland), T. S. Johnson (Malvern), J. Philos (Wigan), T. B. Stead (Leeds), and F. P. Williams (Manester), were substituted for Messrs. G. A. Cubley (Sheffield), U. Jones (Leamington), R. Reynolds (Leeds), J. Shaw riverpool), and J. Wade (London).

Mr. Thomas Greenish has been elected to the presidency the Pharmaceutical Society, vacant by the retirement of r. G. W. Sandford. We have the satisfaction of publishg portraits of both the past and the present Presidents.

A movement has been made in the Pharmaceutical buncil towards establishing an enforced curriculum as reliminary to examination for pharmaceutical candidates.

At least, a committee has been appointed to investigate the relations of pharmaceutical education and examination,

The death of one of the most able of British pharmacists, Mr. W. W. Stoddart, of Bristol, is announced.

We have received a number of letters from chemists' assistants who have been written to by the British Dental Association asking them to resign their dental registration on the ground that they are not also on the Pharmaceutical Register. These gentlemen never said they were, and yet prosecution for false and fraudulent registration is hinted at. We have dealt with this matter elsewhere.

Several chemists have been prosecuted in London for being found in possession of inaccurate apothecaries' weights. They were fined in small amounts only; but this prosecution has pointedly revealed the danger to which chemists with unstamped weights and measures are subject. A letter from Mr. Haydon, secretary to the Chemists' Trade Association, in our Correspondence section, directs special attention to this matter.

A Bill has been introduced into the House of Commons to consolidate and amend the law relating to the manufacture of spirits. The regulations as to the retailing of methylated spirit are not affected by it, but clause 131 contains a sub-clause which subjects to a fine of 100l, any person who "sells or has in his possession any article in the preparation of which methylated spirits or any derivative thereof has been used." The preparation, use, sale, or possession of sulphuric ether and chloroform, are specially exempted from the operation of this clause, but we do not at present understand whether this Bill is intended to prevent the use of methylated spirits in soap, camphor, aconite, and belladonna liniments, for which express authorisation has been given by the Board of Inland Revenue. The clause just quoted seems to make methylated spirit of no value to anybody outside the special exemptions.

The exhibition of pharmaceutical apparatus and objects of interest to pharmacists held last month at Bloomsbury Square proved a distinct success. Some 500 visitors examined it, and none of these failed to find something new. The arrangements for the advantage of exhibitors and visitors were as perfect as the space at disposal would allow, and were very creditable to Mr. Holmes, the curator of the Society's Museum, on whom the organisation depended.

In a paper read before the Chemical Society, Dr. Dupré gave a simple method of detecting foreign colouring matters in wine, based on the curious fact that the genuine colouring matter of wine does not dialyse, while all artificial colouring matters, except alkanet, which can be readily distinguished, dialyse freely.

Our readers who are soda-water makers will be interested in a very practical paper written for us by Mr. John Briggs, the Nestor of the soda-water machinery trade. He records a number of experiments, and concludes from them that the custom of bottling aërated waters at a pressure of 120 lbs. is simply a waste of material and a needless risk and wear of machinery.

A herbalist charged at Sheffield with selling adulterated paregoric containing no opium raised the novel defence that a balsam of aniseed had been sold in mistake for paregoric, which he was not allowed to sell. He was fined 5l. and 18s. 6d. costs.

With our next number (July 15) we shall be prepared to stitch circulars, and can guarantee a distribution of ten thousand to separate firms.

Pharmacalia.

THE BELL SCHOLARSHIPS.

WE look with some degree of interest to the number of candidates who may have entered themselves for competition for the Jacob Bell Memorial Scholarships. The examination takes place on the first Tuesday in July, and it is sincerely to be hoped that this year will not be marked by the strange apathy that has been shown of late. Should it transpire that these annually-offered prizes are still treated with neglect, it becomes a question whether the subject would not be worth official notice in a President's address, or in the Council's regular report. Great and undoubted progress has been made during the past few years in pharmacy. We are in a position, as a community, to command respectful There are many men attention from the outer world. amongst us who, having gained distinction as pure pharmacists, have gone far beyond their immediate circle, and ventured upon other paths of knowledge; and yet there is this persistent flaw in our Society, that its youngest members, from whom hereafter its ranks must be recruited, seem to treat these scholarships, which are equally honourable and advantageous, with complete indifference. We began some time ago to draw up statistics relating to this matter, but the illustrative figures were so poor that we had no heart to continue the attempt, and we can only re-echo the twice uttered public lamentation of Mr. Taylor, in which he expressed both his sorrow and his astonishment at the paucity of the applicants. We have come across but one explanation, which had the foolishness to include somewhat of a defence. This was a letter stating that the rewards of a similar character given by our great universities were far more remunerative, and that, consequently, our own scholarships were despised. It need hardly be pointed out that no basis of comparison exists. amount of scholarship required from our students would not entitle a candidate to obtain the smallest university remuneration. It would not gain for him any open exhibition, emolument, or scholarship at either Oxford or Cambridge; it would not even enable him to pass a matriculation examination at any Hall or College. The wisdom of this limited demand upon the acquirements of the candidate is manifest, for our scholars are supposed to be commencing study, and to have made only that progress which may reasonably be expected during an apprenticeship. There is still less a basis of comparison when social considerations are taken into account. A man entering the universities has certain necessary expenses, which are imposed by a higher than a written law. These are incidental to his position, and as such unavoidable.

The Jacob Bell scholar is weighted by no such contingencies, and it is left to his own discretion to be as extravagant or as economical as he may think fit. Society makes no possible demand upon his resources in consequence of his social standing. In the first place, he has 30*l*. a year at his sole disposal: the Council gives him his education gratis, and, by a further act of generosity, he is presented with the books of which he stands in want.

We find it difficult to refrain from giving expression to the thought that masters must be to blame in the transaction. These scholarships were created for a double and an equal purpose. They were intended beyond question to keep alive, and to promote sound scholarship: they were meant also, as their name implies, as a means of holding in perpetual reverence the services of him whose name they bear. We would urge then respectfully on masters the duty

of strongly impressing on their apprentices the value of these memorial foundations. We would ask them not only to render their young assistants familiar with the pecuniary advantages to be obtained, but to stimulate them in the path of honour. Money must not be the one guiding star by which our youth stear their course, if there is to be hope in the future of English Pharmacy. In the hall of the Society's rooms there is a marble bust of Jacob Bell: that is one way of testifying our esteem. Surely we are further bound to show the reality of our respect by fostering that educational system to the establishment of which he consecrated his whole life.

UPWARD DISPLACEMENT.

The scholarship itself is far from having been a failure, it is only the competition for the honour that has been at fault. We have reason to be proud of the men who have been annually elected. One of them, Mr. William Elborne, has just written a most original paper on "Upward Displacement by Water."

He remarks that there are four processes for the preparation of tinctures sanctioned by the Pharmacopæia: these are simple solution, maceration, percolation, and combined maceration and percolation. In the preparation of tinctures by the last process there is a certain loss of weak tincture formed by continuing pecolation with the remainder of spirit, which implies some loss of strength in the tincture, and also loss of spirit. The practice of pouring water upon the marc with a view to displacement of retained tincture is open to well-known objections. Firstly, the specific gravity of water being higher than than that of rectified, or proof spirit, it naturally permeates down into the spirit, which at the same time has a tendency to rise into the water, thus materially assisting the diffusion or mixing of the two liquids; secondly, vegetable tissues possessing a greater affinity for water than for spirit, the latter is readily liberated from them, and rendered free to rise into the water. To obviate this disadvantage Mr. Elborne employs upward displacement, or the removal of the residual tincture retained in the marc by means of water (the heavier liquid) rising from below. One impediment is the slight diffusion which takes place at the line of contact. Proof spirit tinctures were made of orange, calumba, cinchona, cinnamon, hops, and rhubarb; while aconite and ginger (fort.) were treated with rectified spirit.

In making the proof spirit tinctures, the ingredients were powdered and macerated with the whole of the spirit specific gravity 915, for the specified time, with occasiona agitation. Percolation having been effected in a cylindrica percolator two inches in diameter, half an inch layer o glass was placed on the top of the marc to prevent the float ing of solid particles, while a cork, previously adapted t the bottom of the apparatus, allowed a glass tube two inche long to be inserted, the free end of which was drawn out int a capillary opening. To this end was attached about a par of indiarubber tubing communicating with a vessel place above, containing distilled water, the pressure of a colum of water having been thus obtained. The tube being fille with water and adjusted, a wire clamp attached to the low portion of the tube was removed, and a slow and stead flow of water commenced. In this manner, after the laps of an hour and a half, sufficient displacement will have bee effected, the water having risen considerably above th marc, and with it will have been removed the retains tincture which forms a dense stratum on its surfac In making pint tinctures the measure was brought u to 19½ oz. by the addition of the requisite quantity of su face liquid from the percolator, the product filtered ar made up to a pint with proof spirit. Having original

neasured the product of percolation, the exact quantity reuired of the surface liquid was known exactly, and it was rawn off by a glass syphon, the two products being mixed and filtered and made up to a pint with proof spirit, the peration was complete. The tabulated results contrasted avourably as regards loss with those shown by the observaons of Mr. Umney, when the tinctures were prepared on he large scale by the B. P. process with the subsequent use the hydraulic press. Sundry experiments were undertaken further elucidation of the subject.

Mr. Elborne stated in conclusion that he was not aware at upward displacement by hydrostatic pressure had been ready practised in pharmacy, although the principle was tensively resorted to for filtering purposes in the arts.

WILLIAM WALTER STODDART, F.I.C., F.C.S., F.G.S.,

excellent pharmacist and a man of happy temperament, s just passed away.

Many of our readers will be familiar with the genial expession of countenance and the frank good nature of our e Bristol friend. No member of the British Pharmatical Conference stands in need of any description of his sonal appearance. Mr. Stoddart had been for some time fering from disease of the heart, but it was hoped that it s not of so serious a character as the result proved. There re, indeed, indications not unnoticed by those around him impaired activity, and, all too soon for pharmacy, whose gress he certainly advanced, and for his companions, to om he was endeared, he died on Sunday, May 30, 1880. Sad event took place at his residence, Grafton Lodge, syd Park, Stoke Bishop, Westbury. He was aged 56.

for many years Mr Stoddart resided in the city of Bristol, I carried on the business of a chemist and druggist in the Street, until he took the public appointment of city lyst on the passing of the Act against adulteration, ich created a new class of official chemists. Mr. Stodt, as may be seen from his literary contributions, was I read, and had taught himself a good deal of the varied wledge which he possessed.

When residing in St. James's parish, he took great inst in church affairs, and paid much attention to educatal and charitable movements, being several times elected thurshwarden.

Te was always ready to help in any good work that was a gon, and while he was living at Stoke Bishop he someters gave lectures in the schoolroom there, as he did elsere, on geology, botany, and other kindred sciences. As analyst he was painstaking and conscientious to the last ree, and most precise in his expositions and reports. He analyst for the county of Somerset as well as for the and county of Bristol.

he career of even a successful pharmacist does not usually ess much striking incident, and the life of Mr. Stodoproves no exception to this rule, although his duties as analyst brought him into more general contact with ey. Immensely active as he was (and the term is used a sedly), he found full occupation in the immediate es of his calling. He became a member of the Pharmacical Society in 1853, and was on its Council from 1868 to 375.

ne of his earliest papers was read on April 7, 1866, before Bath Chemists' Association, on the "Nature and Propies of Heat Practically Applied." In this communicatione may trace the characteristic tendency of his mind tring the results of original research to bear upon the ptical wants of pharmacy, and this will be found the

leading idea which ran through all his investigations. It would almost be expected that Mr. Stoddart should take a warm interest in his own sphere of provincial education. He became the President of the Bristol Pharmaceutical Association, and gave the anniversary address on two successive occasions. It was to the junior members of this association that Mr. Stoddart, after resigning the presidential chair, offered his services in a course of scientific instruction in the materia medica, chemistry, and botany of the Pharmacopeia. The students who had attended the course (about twenty) recorded their appreciation in the form of an address which they had framed and illuminated. Its presentation could not have been but most pleasing to the recipient.

Mr. Stoddart might have been content to remain and labour in his own neighbourhood, but a new influence was at work which effectually roused his energies, and directed them into a congenial channel. "Conference," said Lord Bacon, "maketh a ready man," and Mr. Stoddart was entirely of that opinion. He lighted up at these gatherings of British pharmacy; he was pleased himself and made others pleased. When during a discussion he had made a good point he would beam with satisfaction; he was only too glad to answer any question he was asked, and he entered upon the social amusements of the day with all the zest and much of the manner of a child.

Mr. Stoddart produced his first Conference paper at Bath (1864), Mr. Deane having been chosen to preside. It was on the "Purity of the Sulphate of Quinine of Commerce," in which he showed that quinidine and not cinchonine must be sought for as the chief impurity. The paper is noticeable as containing two indications in the analysis of suspected samples which have since been adopted, and one of which as a quinine test has been associated with Mr. Stoddart's name.

The first was micro-chemical, and depended on the crystallisation of sulphocyanide of potassium. He found that if a drop of a solution of this salt were added to a drop of saturated and neutral solution of suspected quinine, and the mixture observed by the microscope, crystals of sulphocyanide of quinidine and sulphocyanide of cinchonine, both of highly characteristic form, and wholly distinct from the sulpho-cyanide of quinine, would be formed at the same time, and would be observed if either quinidine or cinchonine were present. He thus describes the method of investigation:

"If only a small percentage of quinidine be present it will appear as an oily substratum, appearing under the lens as dust from the minuteness of its particles. Cinchonine will appear more decidedly crystalline. With a little practice the eye will easily distinguish which of the alkaloids is deposited.

"A very good plan is to place a very small drop on a glass slip, and to put another of the sulphocyanide by its side. Over both place a piece of thin glass, which will cause the drops to tcuch. Examine the line of junction under a 4-inch lens, when the crystals are seen and may by readily recognised. By this method $\frac{1}{10000}$ grain of quinidine or cinchonine may easily be detected. It is very interesting to see the particles all arranging themselves into the respective groups; the long slender needles of the quinien salt, the round crystalline masses of the quinidine, and the large well-formed prisms of the cinchonine salts. So remarkably constant is this reaction, that an observer who has once been accustomed to the general appearance can at once say with ease—This is quinine, this quinidine, and that cinchonine."

The quinine test, which is a modification of one by Liebig,

is now quoted in chemical manuals, and may be given in the author's own words.

"Into a glass tube or bottle put 10 grains of the suspected salt, dissolve in 10 minims of dilute sulphuric acid and 60 minims of distilled water; to this add 150 minims of pure sulphuric ether, 3 minims of alcohol, and 40 minims of a solution of hydrate of soda (1 part to 12 parts). Agitate well, and lay aside for 12 hours, when, if the slightest trace of quinidine, cinchonine, or cinchonidine be present, they will be seen at the line of separation between the ether and solution of sulphate of soda."

The general result of Mr. Stoddart's inquiry went to show that the sulphate of quinine obtained through well-known wholesale houses was commercially pure, and quite fit for medicinal use. It was, in his opinion, the chemist's own fault if he were not supplied with an article of sufficient purity. His next Conference paper was produced at Dundee (1867), Professor Bentley being the President for the year. The title was "Notes on the Use of the Microscope and its Crystallographic Application." The following year at Norwich (1868), during the presidency of Mr. Daniel Hanbury, he contributed two papers, both of which attracted attention. They were typical of the class of information which it was the design of the Conference to elicit.

The first was on "Honey: its Formation and Changes," the second was on "Lemon Juice and its Decomposition." In the last communication he remarked, "Probably I should not be far from the mark if I said that half the liquid sold as lemon or lime juice has been a mineral rather than a vegetable production. A modern author coolly inform us that an artificial solution of sulphuric acid is more agreeable to the nautical palate than the true juice." When the Board of Trade passed the Shipping Act, by which it was enacted that the mate of every foreign-going ship should provide so much lime or lemon juice as that eac' man should have at least one ounce per diem so soon as the vessel had been ten days at sea, and that every sample should be examined by a special officer, "the consternation," said Mr. Stoddart, "among the merchants holding large quantities of lemon-juice may easily be imagined, for, although the Board of Trade had given considerable latitude in their requirements, yet hardly any in the market would stand the tests and pass the examining officer." Not an ounce of genuinc juice was to be bought in Liverpool, Birmingham, and Bristol. The examination of a great number of samples showed that some were plainly artificial: a few contained sulphuric acid, but most of them were merely diluted with water. The greater number of those obtained from the retail shops were artificial, and in no single instance stronger than 24 grains per ounce. At the British Pharmaceutical Conference at Exeter, 1869, Mr. Stoddart brought forward his paper on "The Application of Spectral Analysis to Pharmacy." Having described the meaning of the term, the method of working, and the grand discovery in 1860 by Kirchhoff and Bunsen, he proceeded to enumerate in detail the results obtained from observation of the spectra of a long list of Pharmacopæial preparations, amongst which were included many tinctures such as are generally used-fluid extracts, liquors, solutions, and medicated wines. The object of the paper was not to explain the bright lines of incandescent bodies, but the appearances of solutions and other liquids when subjected to this mode of investigation.

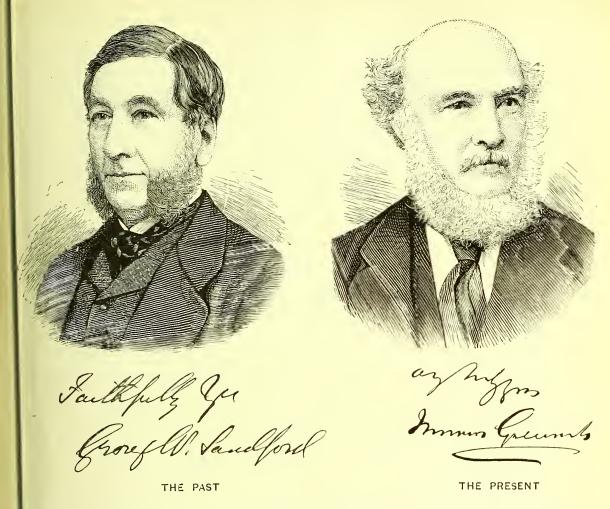
Mr. Stoddart was elected President of the British Pharmaceutical Conference at Liverpool in 1870, a year which was marked by the completion of the arrangements for issuing an official record of the transactions of the Conference under the title of the "Year Book," The editor

selected was the late John Cargill Brough. The following year Mr. Stoddart presided at Edinburgh, and on both occasions pronounced the customary inaugural address.

Circumstances just at this period seemed to favour his frequent appearance as a public character. At Bristol he was in great request, as has been seen already, and at the opening of the session (1872-3), at Bloomsbury Square, he was the appointed lecturer. At the Brighton Conference in collaboration with Mr. R. L. Tucker, he contributed a joint paper, which gave rise to a most animated discussion. It was on the tinctures and wines of the British Pharmacopeia: the authors contended that there were two entialess requisites for success in the process of percolation—one the proper form of percolator, and, secondly, strange as it might be to say, no direct packing. In their opinion, dependence could alone be placed upon the perfect cylinder, and that the mos satisfactory work was done when the percolator had a dia meter about one fourth the length, and when the ingredient occupied one-fourth of the interior, and it was recommended that the ingredients should be allowed to pack themselves.

The last of these contributions was read at Sheffield (1879), on "The Growth and Development of Clavicep Purpurea" (Tulasne). And now let us turn to another grou of literary sketches which were specially characteristic:-"Twas on one of those glorious days of the month August" (wrote Mr. Stoddart in the winter of 1870), "whe sunshine and fine weather were doing their utmost to temp the sedentary, that the author succumbed to their influence and wished for a dose of fresh air, with the exhibitanting pleasure of a long walk in the beautiful environs of the goo old city of Bristol. People were from home, some enjoyin the sea breezes of Weston, or Cleveden, others the rock cliffs of Ilfracombe or Tenby. Physic and its accessoric were at a discount, and little remained to strengthen the resolve and carry out the wish for a day's holiday and reli from the cerulean thoughts that are said sometimes to hau the too zealous attendant at the shrine of business." Wh was to be done? The writer took his holiday in a fashion his own; he determined to examine the locality for wh portion of the materia medica could be found in a natur state. Mr. Stoddart, therefore, under the title of "Bris Pharmacology," began a series of descriptive papers wh appeared at intervals during six months, and in them no whatever of botanical, chemical, or pharmaceutical inter he could discover in his immediate neighbourhood. series was interspersed with the happiest quotations fr Greek, Latin, and English poetry, and read as a wh forms an excellent illustration both of his varied kind learning and of his buoyant temperament.

Mr. Stoddart was a Fellow of the Institute of Chemie and also Fellow of the Chemical and Geological Societ he was Lecturer on Forensie Medicine at University Coll Bristol, and had a considerable analytical practice. devolved on Mr. Schaeht to convey the intelligence of deecase of Mr. Stoddart to the Council. Mr. Sandford, be resigning the presidential chair to his successor, expre the regret which he and the Council felt at the loss of " of the brightest ornaments of the Pharmaceutical Socie Having been associated with Mr. Stoddart for about (years on that Board, he felt very much grieved and depred at the loss the Society had sustained, for although occupations had of late kept Mr. Stoddart away from e meetings, yet he had always advanced the honour of rmacy and the Pharmaceutical Society. He was quite ce 11 that all the members would join in sending a messa of condolence and sympathy to Mrs. Stoddart and the fa y. The suggestion was acted upon unanimously. This is a ef record of a life well spent.



THE PHARMACEUTICAL SOCIETY. PRESIDENTS O F

Chemists und Druggists' Trnde Association of Great Britain

HE fourth annual gathering of the members of this Association took place on Tuesday, the 18th ult., at the s of Court Hotel, Lincoln's Inn Fields. The proceedings menced as usual with the

MEETING OF THE GENERAL COMMITTEE.

Ir. Thomas Barclay, the President, occupied the chair. he Secretary having read the report convening the eting

he President said the first business was to fill up four ancies on the committee, and this was accordingly donc the addition to the committee of Messrs. Carr (Berwick-Iweed), Passmore (Exeter), Mason (Liverpool), and

ph Ball (Birkenhead). r. HARRISON (Sunderland) moved that the report and ounts be received and adopted, and recommended to the ual meeting. They had a balance in hand of 830l., and year it was only 896l., and the past year might be ed upon as one of exceptional expenditure. This was sfactory. The only point in the report with which he was satisfied was the part relating to the service of chemists druggists on juries. He had written to the Secretary he subject, and he and many of his neighbours thought the time was very suitable for taking up the question. He hoped the Association would not wait until they had a new Pharmacy Act or a Jury Bill, but would endeavour to get the exemption extended to all on the register.

Mr. PHILLIPS (Wigan) seconded the motion, and said he

agreed with Mr. Harrison on the jury question.

Mr. GREAVES (Chesterfield) took some exception to the part embodying the resolution on the subject of confining the sale of patent medicines containing poisons to registered chemists and druggists. He thought most gentlemen of the Executive Committee resided in large towns, and were hardly aware of the circumstances of rural districts. In his own neighbourhood there was an area of some 500 or 600 square miles with only fourteen registered chemists, and nine of those were in four places. The Act of 1868 had seriously interfered with the convenience of the rural population, it ought to have proceeded upon the lines of the Apothecarics Act of 1815, and recognised all dealers in poisons and drugs generally, more especially in the rural districts, and things would have righted themselves as time went on. He approved of the Pharmacy Act generally, and had done more for it than any chemist in Derbyshire, having passed many pupils from his establishment; but he contended that any amended Pharmacy Act ought in justice to make provision for the rural population. It was gross injustice for a poor man to have to lose a day's employment to get a trivial article in a sudden emergency, and instanced a place in Derbyshire where the distance from a registered chemist is 10 miles! He also objected to the recom-

mendation of the Trade Association Executive Committee to include patent medicines in the Act unless exception were made in the rural districts, as all such medicines contain ample instructions for their administration, and are no more liable to accident than medicines containing poisons that are compounded by medical men.

Mr. JERVIS (Sheffield) thought the greater part of the district referred to by Mr. Greaves was moorland.

Mr. GREAVES said the district contained 100,000 inhabitants.

The PRESIDENT in putting the motion said he should state in reply to Mr. Harrison that they had been advised by the Solicitor (who he regretted was unable to attend) that no steps could be taken in the matter of the jury exemption before an amended Pharmacy Act or a new Jury Bill were brought in. He himself was not satisfied with the financial position of the Association. The balance had somewhat decreased, and they could not regard the expenditure of the year exceptional. In reply to Mr. Greaves, he must remind him that their action in connection with the sale of poisons had been quite in accordance with public opinion. The Press were almost unanimous in requiring that those who sold poisons, whether in the shape of patent medicines or otherwise, should be registered chemists and druggists. They were not, therefore, simply acting in their own interest in his matter. No one would attempt to do anything opposed to public opinion, because if they did they would not only fail, but bring disgrace upon themselves. In country districts he understood it was the habit for people to keep themselves supplied with what they were likely to require from the nearest market town. Mr. Greaves's argument, if carried to its legitimate extent, would upset the Pharmacy Act altogether, and there would be free trade in poisons. He must also remind Mr. Greaves that the Executive Committee represented country districts as well as large towns.

The President said the next business was to prepare the list of names for the annual meeting for the election of the

Executive Committee.

Messrs. Throssell, Mackenzie, and Davidson were appointed scrutineers, and while they were examining the papers

The President said a chemist had been summoned under the new Weights and Measures Act. It was a member who lived in a suburb of London. It was the first prosecution of the kind. The gentleman referred to had been very careful indeed, at least, according to their information, he had been very careful in having his weights and scales examined. Seventeen weights had been seized; some of them quite new. Under the circumstances they had determined that their Solicitor should be brought to defend, so that the case might be thoroughly investigated. A great deal of discussion had taken place lately in the Pharmaceutical Journal, and also in The Chemist and Druggist, in regard to the new Act, and therefore he felt sure they would watch the case with very great interest. The President then referred to the absence of Mr. Jones, the ex-President, through illness. Mr. Jones, he said, had done great service in working on the Executive and in acting as the first President of the Association. So long as he had health and strength he was always at his post, and they owed much to him for the attention he gave to the Association. He was now laid upon a bed of sickness, and he (the speaker) was sure it would be in harmony with the wishes of the meeting that some expression of feeling should be sent to him from them. He therefore moved-

That this meeting of the Chemists and Druggists' Trade Association hears with regret of the illness of Mr. S. U. Jones, its late President, which prevents him again sitting upon the Executive Committee, and expresses the hope that he may be speedily restored to

Mr. HAMPSON, in seconding the motion, said he had the pleasure of sitting frequently with Mr. Jones at the Executive meetings, and they all felt that they had the right man in the right place. His presence in the chair not only was a benefit to the Association, but it inspired confidence outside. Mr. CROSS (Shrewsbury) in eulogistic terms supported

the motion, which was put and carried unanimously.

The President then called attention to the unpaid subscriptions, and asked for suggestions for getting them in. It was a very important matter, as they were rather short of funds.

Mr. Symes suggested that members in various districts should have lists sent them of outstanding subscriptions for collection.

Several said they already received such lists regularly, and found no difficulty in getting the subscriptions.

Mr. WALKER suggested local secretaries for the different towns, a plan adopted by the Pharmaceutical Society.

The PRESIDENT replied that every member of the General Committee was ex-officio a local secretary, and acted as sucl in getting in the subscriptions.

Mr. HAMPSON appealed to members to send in their sub

scriptions unasked.

Mr. Maltby suggested that in collecting subscription members should endeavour to get donations, so that the might build up a reserve fund for the future in case of need

The following list was reported by the scrutineers to be chosen for recommendation to the annual meeting as the

EXECUTIVE COMMITTEE FOR 1880-81.

Andrews, Frederick, London
Arblaster, C. J., Birmingham
Barclay, Thos., Birmingham
Bell, C. B., Hull
Churchill, W. J., Birmingham
Cole, F. A., Colchester
Cross, W. G., jun., Shrewsbury
Davison, Thos., Glasgow
Delves, George, Exeter
Hampson, Robert, London
Harrison, John, Sunderland
Holdsworth, T. W., Birmingham

Jervis, W., Sheffield
Johnson, T. S., Malvern
Kerr, Chas., Dundee
Mackenzie, James Edinburgh
Matby, Joseph, Lincoln
Owen, John, London
Phillips, J., Wigau
Southall, Wm., Birmingham
Stead, T. B., Leeds
Symes, Chas., Liverpool
Walker, George, Coventry
Williams, F. P., Manchester

THE ANNUAL MEETING.

The annual general meeting of members was held a 12.30 P.M., Mr. Barclay, President, in the chair.

After the SECRETARY had read the notice convening th meeting and several letters from members unable to attend

The President, in opening the proceedings, referred t the absence through illness of Mr. S. U. Jones, their lat President, which they must all regret. He felt sure nothin but necessity would have prevented his attendance. Th first question for them to consider was the report of th Executive Committee, and the general statement of th funds of the Association.

The report having been taken as read,

Mr. GREEN (Woolwich) moved the adoption of the repo and balance-sheet. The only point to which he wished refer was that of subscriptions, and he hoped what had be shadowed forth in the General Committee in the mornin would be taken hold of and lead to further subscriptions.

Mr. MASON (Liverpool) seconded the motion.

Mr. SPINK (Westminster) said the report appeared to de with a variety of questions respecting the general inter of the trade. It also seemed to him the Association h done very good service. But there was one very great e which was not mentioned in the report. He did not prop a resolution. He simply rose as a humble member to ma a suggestion, and the suggestion was that the Commit should take into consideration the trading proclivities the Civil service, and select delegates from its body to g evidence before the Parliamentary Committee, which doubt would be going on with its labours when Parliam met, for unless the chemists and traders generally mad firm and determined stand now any effort in the fut would be futile. As the Association had been for so years watching the best interests of the trade and means by which they might be allowed to live, he thou it would be as well to send delegates to the Committee give evidence. It grieved him very much to see that great body of chemists were so indifferent to their interests. He had the honour of giving evidence before Select Committee last June, and one of the first quest asked him by the chairman was whether he represented society, and he felt strongly convinced that if he appeared in a representative capacity more weight would attached to his evidence. But there appeared to be unity among chemists, and he therefore made the sug tion to the general meeting that they might send deleg s to give evidence. Surely they were harassed enough; with short weights and late hours and the examination had to undergo, it was grossly unfair that those per s could come forth and set up and trade and sell thing t ess than cost price. The stores had interfered with their ade more than it had with any other. Of course their rnover was very small, and consequently according to the dinary tariff the profits were proportionately high; but it is stores had a large business in other matters, and were ble to put forward their goods in some cases absolutely less han cost price. He had the honour of being a candidate or a position in another place, and if he should attain that sition he should advocate there what he was now doing, at delegates might be selected to attend and give evironce before the Parliamentary Committee.

Mr. Long had much pleasure in supporting the resolution at the report and accounts be adopted. He also felt very rongly the position in which they were placed, and ought it very important that they should do all they uld to put down co-operative trading, especially in isons. If they chose to show a determined front they buld make themselves heard; but of course if they were ly a rope of sand they would never attain any object

natever.

Mr. HAMPSON said the question raised by Mr. Spink was so much importance that it had better be dealt with

The PRESIDENT concurred, and the motion for the adopn of the report was then put and carried unanimously.

The PRESIDENT said the next business was to elect the ecutive Committee and officers for the ensuing year, and called upon the Secretary to read the names selected by General Committee.

This being done,

Mr. SPINK moved that the names elected by the General mmittee form the Executive Committee for the ensuing ar.

Mr. Brown (Greenwich) seconded the resolution, and it s carried unanimously.

The election of officers was then proceeded with by lot, Messrs. Spink and Urwick acting as scrutineers.

WEIGHTS AND MEASURES.

The PRESIDENT said it might be interesting to the mems to know that one of their members had been summoned appear before the magistrates to-morrow morning under new Weights and Measures Act. He had been sumned, not for having ordinary weights used by ordinary lers, but for grain and drachm and apothecaries' weights. y had been tested by the inspector, and reported to be correct. Last night the Executive Committee determined the Solicitor should be telegraphed for, and he would loubt arrive that evening and take charge of the case. y did not know to what extent these weights were ng, and of course were somewhat in the dark at present, inasmuch as it was the first time that apothecaries' ghts had been called into question, they thought it their to take it up, especially as the gentleman who had summoned informed them that he had been always particular, and had had his weights and scales ecrtified y two or three months, but he had never had his grain drachm weights tested. It would depend very much the kind of balance which was used in testing those s ll weights, because no doubt if one were used with such e beam that it would turn with 1-100th of a grain, hardly of the weights in the country would be correct. One o he 17 weights which had been seized was a 3-grain

r. Long thought the question of the weights was eat bogy. For 1s. 6d. they might save themselves all trouble. He had both his sets of dispensing and sets of weights adjusted for the 1s. 6d. each; still they did not all weigh alike, for after having Government stamp on them, if the 2-grain and the ain weights were put together they would not balance 5-grain. But what signified so long as they had the ernment stamp upon them?

r. HAMPSON would like to know if their weights were sped how long they were supposed to remain correct, as important to bear in mind that under this Act the 2 r was quite unprotected. If such a thing occurred as an spector having a grudge against a man he might y, when he took the weights away, file a little off one lem, and there was no protection whatever to the

tradesman. They were absolutely at the mercy of the inspector. Under the sale of Food and Drugs Act there was some protection, because the sample purchased was divided into three portions, but it was not so here. Of course he did not mean to say that the inspector would tamper with the weights, but if he wish d to do so they were absolutely at his mercy.

Mr. Phillips (Wigan) said he believed it would also be illegal now to use scales with anything attached to them to adjust them. It often happened in cleaning scales they got a little incorrect, so that they were obliged to put a bit of lead at the bottom to balance, but that he now understood

would be illegal.

Mr. Churchill called attention to the fact that according to the new law it was no use for a country chemist to buy weights stamped with the London stamp. Chemists would now require to have their weights stamped by their own local authority. As soon as he got home he should communicate with their inspector to see if he was ready to stamp his weights.

Mr. SYMES wished to correct this view, as he believed it was not quite correct, as London weights were good in any

part of the United Kingdom.

Mr. ROBINSON (Norwich) thought inspectors were not very anxious to carry out the law. He had recently inquired of the inspector in his own town, and he told him he had not yet received the standards, and supposed he never should.

Mr. Andrews thought there were very few inspectors who could properly test a 3-grain weight.

THE GENERAL COMMITTEE.

The PRESIDENT next called attention to the next election of the General Committee. It was a very costly proceeding in the matter of postage and printing, and involved a deal of trouble to the members, and therefore two years ago they decided that the election of the General Committee should take place every alternate year, and unless there were some good reason for altering it they should do the same again. He would therefore move,

That this meeting directs that the next election of the General Committee take place in 1882.

Mr. Shepperley seconded the motion, which was agreed to nem. dis.

THE FORMER PRESIDENT.

The President next moved the resolution quoted above in reference to Mr. S. U. Jones. He said Mr. Jones was elected President at the inception of the Association, when it was looked upon somewhat coldly by some gentlemen in high quarters, and in his position as its first President he occupied a very delicate position. His presence as President gave an amount of satisfaction and confidence which did very much to consolidate and help forward the Association. He deeply regretted his absence from the Executive Committee. Mr. Jones was always at his post, and by the thoughtful and considerate judgment he gave every question which came before him he rendered the Committee great service.

Mr. Hampson, Vice-president, seconded the motion, which was supported by Mr. Symes (Liverpool), and earried unani-

mously.

THE OFFICERS.

The scrutineers at this stage of the proceedings returned, and

Mr. Spink begged to inform the meeting that there was no change whatever in the Executive for the coming year, and he thought they might accept gladly this unanimity of feeling amongst those present. He wished the same unanimity of feeling existed throughout the trade as evidently existed there. With the exception of one or two votes the vote was unanimous.

The PRESIDENT thanked them most heartily for their expression of confidence, not only on his own behalf, but on behalf of his colleagues, for this renewed mark of confidence. He could speak at any rate for his colleagues that they had, during the year, given their best attention to the interests of the Association; their hearts had been thoroughly in the

work, and he felt sure that so far as they were concerned, the meeting had done well in re-electing them. For his own part he felt great interest in the Association, and had done so from the first, and during the past year he had done his utmost to further its interests and those of the entire trade. The resolution adopted with regard to the report was one for which he would also thank them. That report in a very few words gave them the results of the work of the Executive during the year, but it could not show the amount of work required to produce such a report. The amount of care and anxiety with regard to the various matters which came before the Law Committee especially could not well be stated in words. They were glad to know that they had in the year made a very slight increase. They had 4.527 on the roll, but there were over 3.000 still outside, and it only needed a little effort on behalf of the Association to largely increase the numbers during the present year. The work must commend itself to the trade generally, and he trusted that a very strong effort would be made during the present year to increase the number of members, so that at the next annual meeting they might congratula e themselves on a further increase. The receipts during the year had been 1,256L, and the expenditure 1,395l., which was going in the wrong direction, showing a deficiency of 1391, and that was accounted for in this way, that at the last annual meeting they had a balance of 896l., whilst this time there was only a balance of 830l. When there was a balance in hand there was always a feeling that it was not the time to increase subscriptions or give donations, and he was therefore glad that at the general meeting that morning, Mr. Maltby, of Lincoln, made a very practical suggestion, that they should endeavour to increase the donations in order to have a sort of guarantee fund, which might be drawn upon in the event of any exceptional necessity, so that they need not consider so carefully whether they dare go forward or not in the defence of cases put before them, so long as they knew they were cases which ought to be defended. He had sufficient confidence in the trade to know, as in the case where Mr. Shepperley was defendant, they would always receive liberal responses to a call for funds, but still it would be better, and make them more free to act on the Executive Committee, if they had some invested funds. It was not unfrequently the case, that they had to inquire of the treasurer how their funds stood when a case came before them, and that was not a very pleasant state of affairs, for it tended to cramp their action. During the past year 143l. only had been given in the shape of donations. The first year they had 1,0281, and in the second year 3751, and in the third year 1,6451. They had, however, last year a special donation which, perhaps, required a little attention, and that was 165l. from the Apothecaries' Company, which was very welcome indeed to their funds. They were very well satisfied with it for many reasons. A very serious matter in connection with the state of the funds was that over 1,000 subscriptions were still unpaid, and that called for the attention of every member of the Association. If every member would exert himself they would soon have a very different state of affairs. He was sure a great many only required to be asked for it, it was so small. That morning several gentlemen had volunteered to go round in their own districts and collect the subscriptions, and he trusted the Secretary would have some further volunteers in that way before the meeting closed. With regard to the 1651. received from the Apothecaries' Company, they were very glad to receive it, because it showed the case was finished. It closed up a case which caused a great deal of anxiety, not only to themselves but to the whole trade and the Apothecaries' Company as well, for if it had gone on with that sort of thing it could not fail to bring disgrace and ignominy upon itself. None of them who mixed much with medical men but knew there was no sympathy on the part of the better class of members of that profession with the prosecution which was instituted. They had in that defence brought out public opinion. They had some very strong opinions from the general press, and they might be quite sure that no chemist would be interfered with in the tuture who followed his calling in the ordinary way and did not undertake to do anything beyond what chemists had undertaken to do since the business had first grown up. During the year some Medical Bills had been introduced which had been watched very carefully. They had watched

them very closely to sec that the rights of chemists were not interfered with, but they were glad to find that their friends had not attempted to interfere with the rights of chemists, and throughout had abstained from including the penal clause in the Apothecaries' Act. During the year the Association had undertaken to prosecute offenders for infringements of the Pharmacy Act, though they were limited in their action in this matter, and could only prosecute under the 17th section, so that vendors who called themselves chemists, though they were not so, and who labelled their poisons as chemists, they had no control over. If, however, they did not comply with the 17th section they could take action, and in ten such cases they had taken action, and in every case they had succeeded. It was also satisfactory to know that in no case in which a conviction had been obtained had any chemist been called upon to give evidence. The officers of the Association attended on public grounds to secure the conviction of offenders. This proved the necessity and usefulness of the Association most incontestably. Eight cases had been sent to the Pharmaceutical Society. and in one of these the Secretary had used the evidence forwarded to him and had obtained a conviction. It was a subject for congratulation that they had thus for the first time obtained concerted action between the two Societies They were not working in any way in antagonism to the Pharmaceutical Society, and so long as that Society would do its utmost to further the interests of chemists, so long would it have the hearty sympathy of the Association, and anything the Executive could do would be readily done to assist it They must not forget in speaking of the Pharmaceutical Society that it occupied a very different position to themselves It not only represented the trade, but it also represented the Government and the public. They, on the other hand, wer purely a trade association, and could undertake cases in the police court with regard to adulteration and many other things which the Pharmaceutical Society could not so wel do, and therefore he felt there was work for both, and they might work with a common object in view. He mentioned this because the Society was often blamed for not doing things it could not do, and he hoped to secure the co-operation of those members of the Society who had not ye joined. During the past year the Pharmaceutical Society had had a very important matter before it, and they hearfil endorsed its action in regard to the London and Provincia Supply Association. The Council might feel assured that the Executive watched with great interest and anxiety it action in that matter, and were glad to find that they ha the courage to go forward to the House of Lords. It was a good case, and if beaten in the House of Lords would necessitate the united action of all parties connecte with the trade to get an amended Pharmacy Act to preve such a state of things continuing. If the law were wer the sooner it were made strong the better, because it w an outrageous thing that any corporate body, say halfdozen grocers, could employ a qualified chemist and set u large trade. There was a law against a chemist taking partner who was not a qualified man, or even the widow a chemist against carrying on the business with a qualifi assistant, and yet, according to the latest decision, half dozen grocers might meet together and employ some no descript chemist to carry on a large trade. If this we found to be the real state of the law they must get the amended as soon as possible. With regard to the Jury I some little feeling had been expressed that the Associat might have done something during the year, but th Solicitor advised them that it would be unwise to atter any action in regard to the Jury Bill before an amend Pharmacy Act or a Jury Bill came before the House, a therefore the matter had been allowed to slide. He glad, however, to see that their friend Mr. Harrison, who been such an enthusiast on this subject, was now a mem of the Executive, and therefore there was no doubt it wo receive due attention. With regard to the Adulterat Act, several cases had come before them during the y one of which they could not defend, because it peared that the individual prosecuted had not u sufficient care, and they felt they could not defend anyth in the shape of adulteration. Three cases, however, t had defended successfully. After giving the details of cases, the President said that the magistrates and anal alike were most of them ignorant of the technicalities of

rade, and they found it was necessary there should be some mendment of the Act. At present they were obliged to ay the cost of the analyst whom they employed to give vidence, although the decision might be in their favour. They intended, on the first opportunity, to move for an mendment of the Act, so that the costs should follow judgent. They also wanted a central board established, to which the evidence should be sent before any prosecution vas authorised, and not leave it in the hands of the local nalyst. They did not want Mr. Angell to determine hether a chemist was to be proceeded against or not. He elieved the Association generally were agreed that it was ne right course to take, to go forward and endeavour to btain such an alteration of the law as would prevent patent edicines containing poisons being sold by unqualified perns. This was one of the objects set forth when the Assoation was first started, and it was satisfactory to find that e object had been kept well in view. He thought the sociation had been fairly successful.

Mr. URWICK asked if the Association would take up cases sending out poisons by unqualified persons, which the

armaceutical Society would not take up.

The PRESIDENT said those were cases which the Executive re always glad to have brought to their notice, and though y could not pledge themselves without looking into the se, he was prepared to say that if their Solicitor thought was a case which they might successfully prosecute, they

uld take it in hand at once.

Mr. Hampson, as Vice-President, returned thanks for election, and said he should continue to work zealously Leretofore. If possible, he would put a little more steam o the matter. It was difficult to pick out any special quesns on which to speak, as he was interested in most of m, but he would like to refer to the question of co-opeive trading. They knew that he had given this subject reat deal of attention, and had urged it upon the Pharcentical Society, and he was gratified to find that a case ultimately taken into Court, and that it was being ied to the highest tribunal. But there was one aspect ch he would like to refer to, and that was with reference ts effect upon the medical profession. They were said e a branch of the medical profession, and he should like sk what would be the effect of dispensing being praed in large stores for the bulk of the population instead oder the conditions which prevailed at present, where sists distribute it for the convenience of the public. opinion was that it would re-act very much against the ieal profession if this continued, for they certainly ld not have men of intelligence coming into the trade. as hard enough now to get a living, but if these things t ton it would be simply impossible. They were essent a part of the medical profession. They were respons, as it were, for the profession of pharmacy. He hoped the Association, whatever came of the matter, would cute it to its extreme limit. He heartily sympathised Mr. Spink as to the smallness of their meeting. It was y small meeting indeed, notwithstanding its represene character. This was the metropolis of Great Britain, at everybody was grumbling about the state of trade, and hey could not get the room full. It showed how very m a they were deficient in the enthusiasm necessary to gi effect to the objects of the Association. There was er point, and that was the question of the Pharmaia. It was an important matter that the Pharmacopæia d be partly framed by the chemists of the country. held a humiliating position in the Pharmacopæia, and ped the matter would continue to have the support of xecutive. They had to consider what they could do to pharmacy worth practising in this country. As they all ew, he heartily supported the defence of Mr. Sheppe ; but they would have to concentrate their energies up this point—the obtaining of the dispensing of the ry. At present they had not got it. They had simply rumbs from the rich man's table. They were not lacists: they were little better than pettifogging ters, many of them. The time might arrive when they eou appeal to the Legislature on this question, for he con-I that it was as much their function to dispense preser lons as it was for doctors to prescribe.

SHEPPERLEY congratulated the President on the very abl nanner in which he had explained the report of the past year, and in doing so he would express his pleasure that the Apothecarics Act had been consigned to repose.

CIVIL SERVICE STORES.

Mr. SPINK then moved-

That this meeting recommends the Executive to appoint delegates to appear before any Parliamentary Committee which may be appointed to receive evidence on the question of co-operative trading.

He believed that such evidence would carry very great weight with the Committee of the House of Commons. It seemed matter of surprise to some such action was not taken before. As a body they had really been asleep in the matter.

Mr. URWICK seconded the motion. He thought it of the greatest importance that they should send delegates to give evidence. The Committee would not pay so much attention to any man who volunteered to give evidence as to anyone regularly appointed, and he hoped the Pharmaceutical Society would also be induced to adopt the same course.

Mr. Long thought it a most absurd thing that persons could evade the law by two or three combining together. The great thing was for the chemists to be more united. They were the real makers of genuine patent medicines, and they might very well put all the other rubbish in the dust-hole. Why did they not supply themselves? Why allow other persons to take the trade out of their hands?

Mr. CHURCHILL said Mr. Long had hit the right nail on the head. Many chemists were the proprietors of patent medicines, and a few who made those articles confined the sale of them to qualified men. He trusted that wherever chemists found that that was being done they would heartily support those proprietors.

The motion was then put and carried.

Mr. ADLIN called attention to the fact that the name of one of the Judges before whom the case now pending was last tried appeared as a member of a co-operative stores in South Kensington.

Mr. Spink said he always understood that it was the rule that if any Judge were interested in the trial of a case which came before him he should leave the Bench, and certainly if a Judge held shares in a co-operative society it was not consistent that he should adjudicate on a question relating to

Mr. Andrews suggested that it was a point which counsel might take up in the House of Lords.

EARLY CLOSING.

Mr. THROSSELL next raised the question of early closing. He said this was the third meeting of the Association that he had attended, and, no one having raised the question of early closing, he wished to do so. In his opinion, there was no substantial reason in the nature of things why their ostensible hours of business should not be akin to those in other trades. It was hardly a sense of strict duty which kept so many of their shops open to all comers from the time of rising till late at night. They were all ready to attend to all cases of necessity at any hour of the day or night, and he had never yet heard of a case in which a patient died because his friends were too nervous to ring the chemist's private bell. But the public were beginning to see and acknowledge that the chemist had as just claim. for leisure as the grocer or draper. It would be the dawn of a new era with chemists morally, mentally, and physically, could they universally agree to adopt shorter hours, and levy a mild percentage upon all business transacted after hours. He concluded by moving-

That this meeting affirms the necessity of earlier closing, and pledges itself by each of its members to favour a system of moderate

Mr. Long seconded the motion.

Mr. MACKENZIE thought this a matter for each one to carry out for himself. If everyone would look to his own door being shut at the proper time, all would be well. But, unfortunately, everybody looked down the street first to see if his neighbour was shut.

Mr. HAMPSON believed it depended very much upon the locality. But just at this time, when every penny made a difference in a man's income, they could not do anything

very practical.

Mr. URWICK said every man had the option of closing early if he liked. When he commenced in his neighbourhood the chemists kept open on Sundays, but he shut his shop every Sunday, and at 9 every evening, although his neighbours did not; but now they had all come round to it.

The PRESIDENT thought this rather a difficult question, and one which had better be left to localities. He suggested that the resolution should be framed thus:—

That this meeting agrees upon the desirability of its members adopting a system of earlier closing, and recommends its adoption as far as practicable.

Mr. Throssell agreed to adopt this form for his resolution, and on being put it was carried unanimously.

A vote of thanks to the President, moved by Mr. Urwick and seconded by Mr. Harrison, terminated the proceedings.

The Pharmaceutical Society.

COUNCIL MEETING, MAY 19, 1880.

A MEETING of the Pharmaceutical Council was held before the annual meeting to arrange the order of business, Mr. G. W. Sandford, President, in the chair. There were also present Mr. G. F. Schacht, Vice-President, and Messrs. Atkins, Bottle, Churchill, Frazer, Gostling, Greenish, Hampson, Hills, Mackay, Richardson, Robbins, Savage, Symes, and Williams.

A resolution expressing sympathy with the family of the late Mr. C. Cracknell, and appreciation of his services, was moved by the President, seconded by the Vice-President, and

carried unanimously.

The President also read a letter which had been received from the Privy Council Office, enclosing one which had been received from a medical practitioner, who stated that a dipsomaniac patient of his had been supplied with narcotic drugs more freely than he thought was right, and adding that he had addressed the Pharmaceutical Society on the subject in vain. A reply to the Privy Council was agreed upon.

THE ANNUAL MEETING.

Members and associates in business assembled in the theatre at noon, and the room was well filled when the President took the chair. After the notice convening the

meeting had been read by the Secretary,

The President gave a short address. Last year he had not expected, he said, to inflict himself again on the Society. It had been his wish to retire from the more active duty, and leave that to abler hands. But the Council had not allowed him to retire. They had again elected him to the proud position of President of the Society. In the 39 years which the Society had seen it had attained a high position. America and Australia had taken its constitution as a model, while their closer neighbours in Ireland had improved on their example, and had obtained more exclusive privileges in regard to the dispensing of medicines than they possessed. He believed that such might have been obtained here in 1868 if the trade had been united. Even now there seemed to be a tendency, as manifested in the public press, towards greater restriction. The exemption given by the Pharmacy Act in regard to patent medicines was being called in question. Appeals from public associations came to the Council, some of them desiring an impossible degree of stringency. He did not wish to mislead with vain hopes; he only wished to show the position the Society had attained. There had been much unmerited blame cast on the Council in reference to the indiscriminate sale of narcotic drugs, often in cases where they had no control. But in this matter chemists ought to recognise their responsibility, though the proscribed list should not be so extended as to destroy the value of the schedule and too much hamper themselves or their customers. The President claimed credit for the Society in the successful defence of a member in the "adultera ed cream of tartar" case, and

briefly referred to his recent official visit to Edinburgh, and to the delight he had experienced at the meeting at Willis's Rooms the previous evening—an event which, he said, would have been impossible before the foundation of the Society.

The report was then taken as read. It is printed at the end of this report. Its adoption was moved by Mr. J. B MACKEY, of London, very briefly, and seconded more at length by Mr. STACEY. This gentleman lightly criticised the conduct of the Council in reference to the admission of women to membership, and said he scarcely understood whi it had been stated that the change did not threaten any important result in the constitution of the Society. He supposed the words were inserted merely as a placebo. He congratulated the Council on their determination to uphole the Pharmacy Act, and hoped they had acted wisely is going to the House of Lords. But when three of the firs judges in the land had declared that the Act itself was muddle, or at least very imperfect, it was evident that th amendment of that Act was a matter of the first importance He thought they should be very cautious how they moved i the matter. The public hardly thanked them for prevent ing them from being poisoned, and if they tried to close co operative stores they would come into collision with publi opinion. He only wished to urge that they should not be too impulsive in going to the House of Lords with suc As to the last clause in the report, he hoped nothin more than the mere mention of it would be necessary supply the want which had been shown to exist in th Benevolent Fund.

Mr. Urwick criticised the financial statement. He though the Society was not laying by funds in proportion to income. They had funded 3,388l. this year, but they ha carried forward 3,405l. Perhaps this position might be do to the increased fees to examiners. He considered the either the examiners in past days had not had justice dor to them, or else the present examiners received more that justice. The speaker next alluded, amid sympathet applause, to the "stereotyped letter" sent by the Registration persons infringing the Pharmacy Act, and thought the course should not be invariably followed. He gave detained a case which had come under his own observation. Groeer in Pimlico received orders for medicines, at delivered them prepared the next day. Mr. Urwick e hibited a box of opium pills which had been so dispensate the groeer had been written to by the Registrar, but he hot discontinued the practice. He sent the prescriptions a chemist at Leytonstone, who actually dispensed them. appeared afterwards that the groeer had written to the Registrar explaining what he was doing, and expressing belief that he was acting legally. Mr. Urwick thought report might have referred to the subject of gett chemists to assist in the preparation of the Pharmacopos

Mr. Howard Hall also criticised the report, referring to the admission of women, and afterwards to the finance management. He commented on the increase in the paid to examiners, which amounted to 580l. 18s. more to the previous year. Referring to his experience a scrutineer last year, he commented on the waste of strength which had occurred in the fact that a large number of Liverpool members had plumped for a single candidate.

Mr. Mackenzie (Edinburgh) thought that more f should be found with the smallness of the expenditure with its excess. He especially referred to the fact only 35*l*. had been spent on provincial education. If so of the money locked up in the funds were spent on edition it would yield 100 instead of 3 per cent. He wask next year for details of the item of 770*l*. for "c and servants," which he thought seemed very great also expressed himself against the system of sending wing letters to all offenders against the Pharmacy Act said he thought the Society had not yet become whishould be—a terror to evil doers. They spent from 20 a 300*l*. a year in law expenses, and ought to get some more from it. A letter from the Solicitor would yreater weight than one from the Secretary. He was prised that the report did not mention the wider syste of reporting which had been established. He urged that didates who failed at the examinations should be to what subjects they had been unsuccessful, as was do the Colleges of Physicians and Surgeons. The admiss of

women members had been decided on by the Council in face of an adverse vote of the Society on two different occasions. Without going into the merits of the case he thought majorities should have been better respected. He congratulated the President on his firmness in the matter. The declaration in the report that the election of members undoubtedly rested with the Council he thought rather smacked of Imperialism; it was as well to remember also that the election of the Council undoubtedly rested with the members.

Mr. UMNEY, as a former member of the Board of Examiners, defended the advance in the payment to the examiners. He said they had not only to give time to the examination itself, but must give special thought and attention to their subjects previously. There were half-a-dozen establishments in London where examiners who got into grooves could be gauged, and the questions they would ask anticipated.

A question arose about voting in the room. One member was about to drop several voting papers in the box, when he was stopped by the Secretary, and told he could only place his own therein. Mr. Andrews thereupon asked whether it was permissible for members present to hand in the voting papers of members absent. Mr. Flux, the Solicitor, read from the envelope accompanying the voting paper that it must be sent by post before a certain date, or delivered personally at the annual meeting. Mr. Andrews replied that he quite understood the meaning, but it had been taken to nean that it might be delivered personally by anyone. The resident thought the meaning was quite clear.

Mr. POSTANS wished more members would join the Society, and went on to say that the Society could do certain work more appropriately than it could be done by the Birmingham Association. He instanced the discussion referring to the

reparation of the Pharmacopæia.

Mr. WHITTLE objected to the admission of women to the ociety, and also urged that members should have more hance of knowing something more about new candidates or the Council.

Mr. BARCLAY, in reply to Mr. Postans, said that the Birningham Association had not contemplated taking any part the preparation of the Pharmacopeia. All they had one was to urge action on the part of the Pharmaceutical ociety. He congratulated the Council on their decision to arry their law suit to the House of Lords. He was not raid of public opinion.

Mr. Brown (Greenwich) asked if the Council were aware at at least one of the judges who had decided the peal case was himself interested in a co-operative store.

The President did not think the Society could impeach e judges.

The PRESIDENT then replied to some of the questions ich had been raised. He read the letter which had en sent by the Pimlico grocer, explaining that he was ly acting as agent for a chemist and druggist. The prortion of candidates examined in London and Edinburgh d been previously published, but he gave them again. As law expenses the Society had much more legal work going than was made public. As to telling candidates on what bjects they had failed it was often his unpleasant duty, as esident, to give that information.

The adoption of the report was then carried.

A short discussion followed in reference to the remark de by Mr. Howard Hall as to the plumpers from Liverpol. Mr. Mackay asked how Mr. Hall knew that these ers came from Liverpool. It appeared that previously pers from each locality were kept by themselves for the ivenience of scrutiny, but the Secretary said this would be te no more. Mr. Symes said that certainly all the papers m Liverpool were not plumpers, for he himself had voted a good many gentlemen. He was especially obliged to see of his friends and neighbours who had shown him this rk of their confidence, but he found on reference that he i received 1,270 votes altogether, and certainly not more in 100 had come from Liverpool. He had been elected the country, and like all other members of the Council endeavoured to represent the interests of the whole of trade.

n the course of this discussion Mr. BARCLAY advocated ta different system of taking the votes should be adopted. urged that all votes should be sent by post to some pro-

fessional auditors previous to the meeting, and that the result should be announced at the meeting.

Subsequently scrutineers were appointed, and, after the usual votes of thanks, the meeting was adjourned until the 21st, when the following report was handed in by Mr. W. K. Hopkin, chairman of the scrutineers.

Voting papers rep to have been is: Voting papers rec Voting papers issi	sued eived		3650 1907	1743					
Voting papers issued but not returned 1743 Voting papers received 1907 Voting papers disallowed:— Informal, having more than 14 names 4 Received by post too late 77 Envelopes unsigned by voters 16									
Harristopes was	8-10-11 27 11		_	97					
Voting p	apers regi	stered		1810					
	Result of th	he Poll.							
Sehacht Symes Hampson Savage Greenish Mackay Hills Gostling Sandford Atkins	1614 1588 1570 1564 1551 1541 1535 1492 1461 1422	Frazer Squire Andrews Radley Spink Postans Shepperley Wills		1389 1358 1048 1043 995 847 681 579					

AUDITORS.

There being only the requisite number of candidates (five) for the office of auditors, the chairman declared the following duly elected for the ensuing twelve months:—

HODGKINSON, WILLIAM, 127 Aldersgate Street, E.C.
LESCHER, FRANK HARWOOD, 60 Bartholomew Close, E.C.
STACEY, SAMUEL LLOYD, 300 High Holborn, W.C.
THOMPSON, HENRY AYSCOUGH, 22 Worship Street, E.C.
WATTS, WILLIAM MANNING, 32 Lower Whitecross Street,
E.C.

FINANCIAL STATEMENT FROM JAN. 1 TO DEC. 31, 1879.

Receipts.

		7.00							
Balance in Treasurer's h	ands, Janu	ary 1, 1	1879	£	s.	đ.	1,905		5
London and Westminste Life Members' Fund—In	er Bank—O			88	2	6	1,500	0	0
Fee	· · · ·	••		21		0			
Communities	Interest					_	109 543		6 10-
Government Securities-		• •	• •				44		8.
Deposit Note—Interest Subscriptions :—	••	**	• •				44	,	C
1,741 Members, Pharm	naceutical	Chemis	ts	1,828	1	0			
812 , Chen	ists and D	ruggist	S	852		0			
966 Associates in bu				1,014		0			
827 Associates not i:				434		6			
		• •		562					
1,071 Apprentices or 8			• •		18	0			
19 Entrance Fees		• •	• •	33	10	U			
				4,731	6	0			
Fines upon restoration	to the Socie	ety		60	1	9		_	_
					_	_	4,791	- 7	9
Examination Fees: -									
1,480 Preliminary Ex	amination	Fees		2,658	14	0			
31 Modified	11	*1		32		0			
666 Minor	"			1,859	17	()			
135 Major		,,		623		ů.			
1-55 Major	"	"	• •	020	**	_	5.174	16	0
D							0,112	10	0
Registration Fees:—	CII.								
22 Registration Fe				***	3.0	0			
Druggists				115		0			
20 Fccs for restoration	to the Reg	gister		21	0	0			
					_	_	136		0
Balance due to Secretar	v. Decemb	er 31,	1878				22	10	7

14,227 18 9

Expenditure.						
	£	s.	d.	£	s.	d.
Balance due Hon. Secretary N.B. Branch, Jan. 1, 1879				58	8	8
Balance due to Secretary, January 1, 1879				17 100	8	5 0
Annuity Dr. Redwoo! Carriage of books to or from the Library, and						
other parcels				17 17	8 10	8 4
Conversazione	111 73	0 5	0 10			
			_	184	5	10
Examiners, Boards of — England						
and Wales Scotland £ s. d. £ s. d.						
Fces to examiners 1,200 3 0 337 1 0						
Fees to superintendents — Prelim.						
examination 142 16 0 19 19 0 Hire of rooms for						
conducting pre-						
lim, examination 44 1 6 3 12 0 Travelling expenses 133 17 0 14 19 10						
Refreshments for examiners 81 7 3 7 1 2						
Apparatus, druge,						
chemicals, for ex- aminations and						
sundry charges in connection						
therewith 86 5 7 26 8 11						
409 1 11						
	2,097	12	3			
Fees to the College of Preceptors	154	7	0	0 051	10	3
Fixtures and fittings			_	$2,251 \\ 139$	12	0
Furniture				$\frac{11}{281}$	15 6	0 9
Journal - Balauce of Account, including						
6181. 1s. 2d., Postage to Memhers and others Laboratory:—				749	4	11
Professor of Practical Chemistry—Endowment of chair	100	0	0			
Prize medals, &c		12	6	105	10	c
Law Charges			_	$\frac{105}{273}$		6 7
Lectures:— Professor of Chemistry and Pharmacy—						
Endowment of chair	100	0	0			
Professor of Botany and Materia Medica— Eudowment of chair	100	0	0			
Subscription to Royal Botauic Gardens Prize medals, &c	21 14	6	3			
			_	235	16	3
Library:— Librarian's salary	200	0	0			
Purchase of books, &c	126	3	11	326	3	11
Purchase of books, &c.—Hanbury Fund				40		0
Museum:— Curator's salary	200	0	0			
Temporary assistant's salary	50 143	19	6			
			_	393	19	6
Branch of the Society in Scotland:— Assistant-secretary in Scotland—Salary	150	0	0			
Current expenses	153	9	2	303	9	2
Provincial education great in aid of				206	4	0
Provincial education, grant in aid of				35 35	17	0
Repairs and alterations Rent, taxes, and insurance of plate glass				225 404	8	$\frac{0}{2}$
Returned subscriptions to Associates	,			24	3	õ
expenses				434	8	11
Salaries:— Secretary and Registrar:— £ s. d	7.					
Salary 450 G 0)					
	550		0			
Assistant-secretary	300 770	0 13	0 6			
Cost of materials supplied to the Bell Scholars			_	1,620 10	13	6 0
Council prizes and herbaria mcdals				9	17	6
Travelling expenses—country members of	f			7		9
Council				343 39		$\frac{3}{2}$
Purchase of 3,500l. New Three per Cents				3,388		ő
Balance, December 31, 1879:— In Treasurer's hauds	1,390		5			
London & Westminster Bank. On deposit In Hon. Secretary's hands, N.B. Branch	500		0 4			
and a second of the second of				1,933	4	9
			£	14,227	18	9

The Benevolent Fund account showed an income from dividends amounting to 543l. 15s.; from donations, 55l. 5s.;

and from subscriptions, 1,200l. 2s. 8d. The sum of 948l. 15s. was paid to annuitants, 6981. 10s. had been distributed in casual grants, while printing, stationery, and postage had cost 43l. 17s. 3d. The amount of the Benevolent Fund invested in Consols was 18,250l.

The amount of the General Funds of the Society, including the Life Members' Fund, invested in New Three per Cents,

is 23,500*l*.

The report was as follows :-

Shortly after the last Annual Meeting, the Council deemed it advisable to settle the vexed question of the admission of women to the Pharmaceutical Society. On the two occasions when this question was submitted to the General Meeting, the expression of opinion was so evenly balauced that it appeared likely to continue a source of contention. The election of members undoubtedly rests with the Council, but in former years the opinion of the Council, like that of the Society, was so evenly divided that an appeal to the general body was deemed desirable. This change does not threaten any important result in the constitution of the Society; up to this time only four ladies have been admitted.

It is gratifying to observe in the Financial Report presented herewith that the increase in the revenue of the Society has continued. The increased revenue has been largely due to the greater number of candidates both for the Preliminary and Major examinations. An unusually large balance (3,405l. 15s. 5d.) was brought forward at the end of 1878, the Council were thus enabled in 1879 to purchase 3,500l. New Three per Cent. Stock. In the last Report a regret was expressed that so many candidates for examination were satisfied to remain in the second grade of the Society. During the year 1879 one hundred and thirty-four candidates presented themselves for the Major examination, whereas in the previous year there were but eighty-onc. In the Preliminary examination there was an increase of three hundred and forty-four candidates, of whom the great majority were not more than eighteen years of age. The Council infer from this that the importance of passing the Preliminary examination prior to connection with the trade, the desirability of which has been so constantly urged, is now more generally recognised.

With a view of insuring the identity of the examinations in London and Edinburgh, the importance of which cannot be too strongly urged, the President and Vice-President, with three members of the Board of Examiners for England and Wales, were deputed to be present at the examinations held last month at the North British Branch, and will in due course report the impression made on them. Their report not having yet been formally presented, it is beyond the power of your Council to enter more fully on the subject in this summary of the proceedings of the past year. There is, however, no doubt that the two examinations are conducted

with equal care.

The Library, now containing about 7,000 volumes, has constantly engaged the attention of the Council. From month to month, on the presentation of the Librarian's report, books which have been recommended by members and others entitled to use the library have, on the approval of the Committee, been purchased. A selection is also made from books submitted by publishers, and many others have been presented. A new catalogue of the library, including also that of the North British Branch, is in the press, and will be sent to all members and associates in business of the Society. Associates and apprentices of the Society will be supplied with copies on application.

An index of the ten volumes of the Pharmaceutical Journal, from July, 1868, to June, 1878, has been compiled and printed; each member and associate of the Society is entitled to receive a copy thereof, free of charge, on applica-

tion to the Secretary.

It will be remembered that the late Daniel Hanbury be queathed a legacy to enrich the library of the Pharmaceutica Society. The Council decided that this bequest should be applied to the purchase of standard works of reference not to be circulated, but to remain permanently in the library.

The formal acceptance by the Council of the Hanburg Memorial Fund Trust has been completed; the amount in vested is 400l. Consols, and a die has been prepared for

medal which is to be offered for competition every two years "for high excellence in the prosecution or promotion of original research in the natural history and chemistry of

drugs.

During the year many valuable additions have been made to the Museum. When it was determined by Government to break up the India Museum, this Council, feeling that many specimens of materia medica and matters allied thereto contained in that collection would be not only extremely valuable, but specially accessible to persons interested in them if placed in the museum of this Society, so represented the matter to the Secretary of State for India, hoping that he would, if possible, secure the transfer of such articles to Bloomsbury Square. Ultimately it was decided that the whole vegetable collection should be sent to Kew to be under the sole control of the Director of the Museum there, and the applications which had been made to the India Office were transferred to the same authority for consideration. Through the kindness of Sir Joseph Hooker, the Director of the Royal Gardens, Kew, this Society has already received many interesting specimens, and there is reason to believe that more will follow.

The Evening Meetings, both in London and Edinburgh, in the papers read and the discussions which followed, have afforded opportunities for the consideration of various incresting matters. The meeting held in London in December was specially devoted to discussion on the new regulations regarding apothecaries' weights and measures

et forth in the Weights and Measures Act, 1878.

When the new Act was passed, the use of apothecaries' veights and measures in the sale of drugs was legalised, but no definition or schedule of them was appended to the Act. Under these circumstances, in January, 1879, the oard of Trade applied to this Society for general informaion as to apothecaries' weights and measures. A full lescription of them was thereupon forwarded to the Board f Trade by the President, and an "Order in Council" ounded thereon has since been issued. Considerable delay as arisen in preparing the standards. They are, however, ow ready and in the hands of many local inspectors. hemists and druggists in this matter, and there is certainly o disposition to bring the provisions of the Act into opetion hurriedly or harshly. Nevertheless it is of course estrable that chemists should put themselves in conformity ith the law, and the difficulty of so doing has ceased, the akers of apothecaries' weights and graduated measures sing now able to supply both with the Government mark verification.

A large number of complaints of alleged infringements the Pharmacy Act, 1868, were received by the Registrar 1879. In all cases inquiries were made, and communition with the offenders opened. The result generally was discontinuance of the offence, but in 21 cases it was found cessary to have recourse to legal proceedings to enforce

edience to the law.

The question of the legality of the sale and dispensing of isons by public companies (called in legal language "corrations"), involved in the prosecution of the "London d Provincial Supply Association," which was in abeyance the time of the last annual meeting, is still unsettled. e Bloomsbury County Court having decided that such a ictice was legal, so long as a qualified man was employed superintend the business, the Pharmaceutical Society pealed against that judgment to the Court of Queen's nch, where the decision of the lower Court was reversed no less authority than the Lord Chief Justice of England Mr. Justice Mellor. On the appeal of the defendant, vever, the case was carried to a higher Court, in which, ill must have observed from the reports in the Journal, ecision has been given adverse to this Society. The case o important that the Council have felt it their duty to tinue proceedings, and have instituted a final appeal to House of Lords. The Council have been fortified in ir resolution to take this course, not only by certain ible remarks embodied in the report of the judgment of Lord Chief Justice, who decided in favour of this Society, also by doubts expressed in the separate judgments vered by the Lords Justices Bramwell, Baggallay, and siger in giving an adverse decision.

1879 the subscriptions and donations to the Benevolent

Fund fell short of those received in the previous year by about 40*l*. The Council are inclined to attribute this to the general depression of the year rather than to a decrease of interest in the prosperity of a fund which is doing so much to relieve the necessities of unfortunate members of the trade. Year by year the permanent engagements of the fund increase by the addition to the number of annuitants. In determining the number to be elected on the last occasion, it was painful to the Council to be obliged, from want of funds, to restrict it to three, there being several other approved candidates on the list. The amount granted in casual relief in 1879 was 698*l*. 10*s*. It may be added that in the present year the amount required for annuities is 1,015*l*., and presuming that the occasional grants will not be less than formerly, the expenditure will be upwards of 1,700*l*.

THE PHARMACEUTICAL DINNER.

THE Ninth Annual Dinner of the Pharmaceutical Society was held at Willis's Looms on May 18, under the presidency of Mr. G. W. Sandford. Mr. F. J. Gant (President of the Medical Society) sat on the right of the chair, and Professor Roscoe (President of the Chemical Society) on the left. There were also present as guests, Dr. B. W. Richardson, Professor Frankland, Mr. W. Crookes, Mr. Ernest Hart, Dr. Greenhow, Dr. Buchanan, Mr. Wyndham Cottle, and other members of the medical profession.

Dinner over, the President proposed the toasts of "The Queen," "The Prince of Wales," and "The Army, Navy, and Reserve Forces." With the latter he associated the name of

Captain Richardson, of Leicester.

Captain RICHARDSON, in responding, referred to the gallant services rendered by the medical staff at Rorke's Drift, and on other occasions in the Zulu War, and he further remarked on the assistance which in late years the art of

war had obtained from the science of chemistry.

The VICE-PRESIDENT (Mr. G. F. Schacht), in proposing the toast of "Science," claimed that pharmacy was established on a scientific foundation, and added that in all parts of the country were to be found pharmacists who obtained their chief delight from scientific pursuits. He coupled with the toast the name of Professor Roscoe, of whom he remarked that he was not only distinguished as a chemist and a physicist, but also as the principal organiser of Owens College, Manchester, one of the most successful scientific experiments of modern times.

Professor Roscoe, in reply, briefly sketched the advance which scientific occupations had made in public appreciation

within the past 25 years.

The "Medical Profession" was proposed by the President, and replied to by Mr. F. J. GANT. The latter said that, as President of the Medical Society, he represented all sections of the profession. That Society was now in its second century. The speaker then proceeded to speak of the public opposition to viviscetion, and argued that patients who objected to vivisection should, to be consistent, decline to avail themselves of the results attained

by vivisection.

Dr. B. W. RICHARDSON next, in eloquent terms, proposed "Continued Prosperity to the Pharmaceutical Society." He described the aid that pharmaceutists had rendered to medical investigators, particularly referring to the search after anæsthetics. Sir James Simpson had been greatly aided by Messrs. Duncan & Flockhart, of Edinburgh, Dr. Snow had obtained assistance from Mr. Lloyd Bullock, and he himself was under peculiar obligations to Mr. Robbins, a member of the Council, whom he hoped one day to see in the presidential chair. To Mr. Williams also, a chemist in the truest sense of the word, he was also indebted. Pharmacy is the fourth estate of medicine. The physician, the surgeon, the obstetrician cannot do without the aid of the pharmacist. The further they advance the more they require that the pharmacist should meet their increasing demands. He hoped the day would come when pharmaey would enter the pale of medicine altogether, become professional in the strictest sense of the word, and each member obtain the opportunity of rising to the highest attainable position in a common profession.

The President replied to this toast, and proposed "The

Visitors," which was responded to by Dr. Buchanan.

Between the speeches part-songs and solos were given hy Miss Julia Elton, Miss Agnes Larcom, Mr. Montem Smith

The company altogether numbered about 120. The speeches were over about 10.30, and about another hour was spent in general conversation in the coffee-room.

THE CONVERSAZIONE.

The conversazione of the Pharmaceutical Society was held in the South Kensington Museum on May 19. The Fresident, Vice-President, and several members of the Council received the guests, who numbered between 2,000 and 3,000. A portion of the Museum was lighted by electricity, and elsewhere a military band performed at intervals. In the lecture theatre a programme of glees and madrigals was performed, and refreshments were also provided.

The Pharmaceutical Council.

JUNE 2, 1880.

MR. G. W. SANDFORD, President, in the chair. All the memhers of the Council were present except Mr. Mackay. Messrs. Andrews and Radley, the newly-elected memhers, took seats at the table.

The Secretary read the minutes of the meetings of Council held on May 5 and 19. The reading occupied rather more than half-an-hour, and on its conclusion Mr. Atkins suggested the possibility of somewhat shortening this formality by mentioning letters recorded without reading them in full. Mr. Richardson concurred in the suggestion, and thought there was no legal necessity to read such letters in full.

DEATH OF MR. STODDART.

The PRESIDENT said his first duty in the ordinary course would now be to ask the Council to clect a successor to himself, but he deeply regretted to have to inform the Council that he had heard from Mr. Schacht that morning that their old friend Mr. Stoddart had died on the previous day. Mr. Stoddart had been one of the hrightest ornaments of the Pharmaceutical Society. He had heen associated with him for eight years on the Council, and could not hut feel deeply grieved to hear of his death. For the past few years his occupations had to some extent separated him from themselves, but all would agree that he had in all his works advanced the honour and dignity of the Pharmaceutical Society. He felt sure that it would be the unanimous wish of the Council to send an address of condolence to Mrs. Stoddart and her family.

Mr. SCHACHT rose to second the suggestion of the President. He was sure that in regard to it there could be but one feeling. The speaker was much affected, and only added that he should perhaps best consult the feeling of the Council if he simply seconded the proposal of the President.

The announcement was received with much emotion by the Council generally.

ELECTION OF OFFICERS.

The PRESIDERT said he would next ask the Council to proceed to the election of a President. In reply to Mr. Atkins, he said his decision to decline re-election was absolute and final.

The votes being taken it was announced that 19 were given for Mr. Greenish and 1 for Mr. Sandford.

The PRESIDENT said the election was practically unanimous, for in the one opposing vote he recognised the bandwriting of Mr. Greenish himself. He had much pleasure in handing to Mr. Greenish the seals of his office.

THE NEW PRESIDENT.

Mr. Greenish then took the presidential chair. In doing so he said he was bigbly sensible of the honour conferred upon him. He was sure it must be a source of pain to every

member of the Council to know that failing health should have compelled the retirement of one so conversant with the affairs of the Society. In accepting the responsibility, of the presidency he was pleased to know that Mr. Sandford would always be as willing to assist him with his advice as he should be to take advantage of it. As

VICE-PRESIDENT

Mr. Schacht was re-elected by 18 votes to 1 for Mr. Hampson and 1 for Mr. Mackay. The President, in announcing the result, said he was very glad that he should be supported by so able a Vice-President.

Mr. SCHACHT hriefly returned thanks.

The election for

TREASURER

Resulted as follows:—Robbins, 8; Hampson, 6; Hills, 3; Williams, 3; Bottle, 1.

Mr. Robbins, in acknowledging the vote, said he had not expected it or be should have been prepared with a pretty little speech.

THE EX-PRESIDENT.

Mr. BOTTLE said he was sure the Council would wish to record in the minutes the testimony of their appreciation of the services which Mr. Sandford had rendered them as President. He almost feared to say how many years be had served with Mr. Sandford on the Council. It must be nearly 30 years. He knew it was over 20 years. He had always experienced the greatest kindness from Mr. Sandford, and he was sure that the Council recognised the immense service Mr. Sandford had rendered. He regretted that they were to lose him as President—should he say through age? He certainly would not say through old age, for he considered that the old horse had a great deal of go in him yet. Still, after the express manner in which Mr. Sandford had intimated his desire to be relieved from his office, it was felt that they could not press him to retain the presidency. He moved a resolution recording the hest thanks of the Council for the services which Mr. Sandford had rendered as President.

Mr. SAVAGE, as another old member of the Council, wished to add his testimony to the remarks which had been made by Mr. Bottle. There had heen occasionally differences of opinion between the President and the members, but there had never heen a more efficient President of the Society.

Mr. Schacht also, as the latest assistant to the Piesident, begged to be allowed to testify to the kindness and courtesy of the retiring President. They had sometimes differed, but Mr. Sandford had never borne him the smallest grudge for any contrary opinion which he might have held. He had always conceded a right to differ from him to his Vice-President.

Mr. Frazer, as representing the North, wished to support what had heen said. When he was first returned to the Council he made it his business to call on Mr. Sandford and make his acquaintance privately, and he recalled with pleasure the kind manner in which that gentleman had instructed the raw youth from the country.

Mr. SYMES, as representing the recent members of the Council, would like to add his testimony to the uniform courtesy which the retiring President had invariably shown. All who had had occasion to differ from him had experienced a remarkable degree of forbearance from him, which he bad often shown under trying conditions.

The President said he had only one objection to what bad been said, and that was that it almost seemed as if they were to lose the services of Mr. Sandford on the Council. For himself he expected a considerable amount of work yet from him. He had often told Mr. Sandford that he was obstinate, but all recognised his courtesy.

Mr. Sandford said it would ill become him to occupy the time of the Council much longer, but he must express his gratitude for the kind remarks which had been made. He knew that at times he had been somewhat obstinate, but was glad that those who differed from him were able to say that they had found him courteous. Of course, there would be, and should be, differences of opinion among 21 men who met to discuss the affairs of the Society. He was delighted to see his friend Mr. Greenish in the chair. He was sure he would conduct the business of the Society more ably than he himself had done, and though he did not think he would

want it, he should always be glad to render any assistance in his power. He desired to correct a statement which had been made to the effect that he was in failing health. This was not the case. He was certainly advancing in years, and he thought that the time had arrived when he might ask for a little more leisure.

After a vote of thanks to the Vice-President for his services

during the past year

MR. ELIAS BREMRIDGE

Was re-appointed Secretary and Registrar, and Mr. Richard Bremridge was re-appointed Assistant Secretary and Deputy Registrar.

The standing orders were agreed to for the year, and the election of members and associates was next proceeded

NEW NAMES ON THE REGISTER.

The REGISTRAR informed the Council that he had added to the register the name of Thomas Manning, Harlesden, Norfolk. The appeal to the Council in the case of a person who had been refused admission to the register by the hegistrar was next taken in committee, and when the papers ad been considered the Council resumed, when Mr. Sandord moved, and Mr. Woolley seconded, that the name of oseph Robinson Lund, of Bradford, should be added to the egister.

The appointment of local secretaries was referred to the

library, Museum, and Laboratory Committee.

COMMITTEES.

The appointment of Committees was next proceeded with, nd after a great deal of discussion these were arranged as ollows :-

Finance.—Messrs. Andrews, Gostling, Richardson, Savage,

Squire, and Symes.

Library, Museum, and Laboratory. - Messrs. Andrews, ottle, Hampson, Hills, Richardson, Robbins, Sandford, quire, and Williams. The same Committee to be also Iouse Committee.

Benevolent Fund.-Messrs. Bottle, Churchill, Hampson, lills, Mackay, Radley, Robbins, Sandford, Shaw, Williams,

nd Woolley.

Pharmaey Act Amendment. - Messrs. Andrews, Bottle, ampson, Mackay, Squire, Symes, Williams, and Woolley. General Purposes.—The entire Council.

The President and Vice-President to be members of every ommittee.

As a result of a discussion which took place in secret last onth it had been decided to appoint a Committee to inquire to the condition of the Society's school. This Committee as now formed as follows:—The President and Viceesident, Messrs. Andrews, Bottle, Hills, Sandford, Squire, illiams, and Woolley.

THE SESSIONAL ADDRESS.

The Council went into committee to consider the names gentlemen who might be nominated to deliver the ingural address in October next.

REPORTERS IN THE COUNCIL.

The Council next went into committee to consider a tion of which notice had been given last month by Mr. chardson, "That the Society's reporter should leave the uncil-room when press reporters are excluded." The porters were requested to leave while this motion was On returning they were informed that the uncil had unanimously resolved that the representative of TE CHEMIST AND DRUGGIST should be placed on the ne footing as the reporter for the Pharmaceutical Journal.

HARMACEUTICAL EDUCATION AND PHARMACEUTICAL EXAMINATIONS.

Mr. Schacht then rose, in pursuance of notice, to move following resolution :-

That a Special Committee be appointed to inquire into and consider the relation to each other of pharmaceutical education and the pharmaceutical examinations; and that they be empowered to invite the co-operation of any members of the two Boards of Examiners, of the professional staff, or other individuals whose opinious and advice they may deem it desirable to obtain; and that they be requested to frame a report to the Council on the subject at their earliest convenience.

He said that he first wished to make it quite clear that in moving for this Committee he had no hidden convictions as to what it might lead to. That he introduced the motion was the result of his duties during the past year. In his capacity as Vice-President, and through the kindness of his chief, he had been permitted to divide the duties which fall to the President and Vice-President in the examination. room. It was almost unnecessary to say, but it would be a pleasure for him to say it, that, in his opinion, the standard of these examinations was as nearly as possible perfect. He also paid a tribute to the ability and the kind spirit in which the individual examiners conducted their so-called "torture." There was, however, one respect in which the examinations could not be regarded with so much satisfaction, and that was in the condition of unpreparedness in which some of the candidates presented themselves. Some of them were so hopelessly, sadly, surprisingly ignorant of the subjects in which they were to be examined that one could but be astonished at their audacity in offering themselves. A very few minutes suffice to show the examiners the calibre of this class. Another section come evidently well grounded in their subjects, and there is very little difficulty in dealing with these. But there is a third section, and with these there is a great difficulty to ascertain whether they really did or did not know the subjects on which they were questioned. Some scemed to be really informed, but others seemed endowed with amazing powers of deception, and they employed really remarkable artfulness and skill in their efforts to baffle the examiners. He was sorry to say that this class was a rather large one. They know that they do not know much, but they devote all their energies to the art of deception. The examiners were conscientiously anxious to do their duty, and to act fairly with the eandidates, and these men were a great source of difficulty to them. It had occurred to him that by the appointment of a Committee some process might be devised which should strengthen the hands of the examiners, and should eventually serve the interests of the young men themselves who were thus making superficial knowledge take the place of real knowledge. If it were possible by any means to check this system, they would not be acting unjustly towards these candidates, but really with the greatest possible kindness. It was in this spirit that he proposed the appointment of this Committee of Inquiry. He would again remark that it was not with the desire of carrying out any preconceived ideas that he desired this Committee. But he thought that the desirability of considering the matter would commend itself to the Council if they thought that his interpretation of his twelve months' experience was correct; if he wrongly interpreted the facts which had come before him, it was time that it should be proved that he was not a careful

Mr. Symes seconded the motion. The experience of Mr. Schacht, and no doubt that of the President also, had led to the conclusion that the present examinations, however well conducted, did not thoroughly test the merits of the candidates. No doubt examinations did to a greater or less extent point the direction of education, but he took it that the majority of those who came up and fearlessly presented themselves, and creditably passed the examinations, were not those who had studied for examination, but had studied for the love of knowledge and for the sake of the advantages which they knew such knowledge would give them in after life. Of course, if young mcu would consider the subject in a right light they would seek to acquire a good foundation in their studies, but it was unfortunately true that they would not look at it in this light, but spent the time which they ought to pass in study in acquiring certain tricks to deceive the examiners. It was their duty to ascertain if any further means could be devised to test the competence of candidates. He went with Mr. Schacht in desiring that the Committee should work on a broad basis. A certain scheme had been put forward, and had been endorsed by a large number of the Council and of the Boards of Examiners, but he supported Mr Schacht's proposition that the Committee should investigate the whole subject on a broad basis.

Mr. HAMPSON regretted that this resolution should have been brought forward, especially as another Committee had been that day appointed on somewhat similar lines. The only object of this motion was to bring about an enforced

curriculum. Whether that was the object desired or not, they all knew that that was the necessary solution. He would not then express an opinion whether the time for enforcing a curriculum had yet arrived or not, but he would remind the Council that they had not had any complaints from the examiners themselves. They had not said that they were unable to distinguish the capable candidates from the incapable ones, and be thought that if such were the case the examiners, as conscientious men, would have felt it to be their duty to bring the complaint before the Council. This was the result of the pamphlet which Professor Attfield had circulated. He repeated that it was unfortunate that this resolution should have been offered just at a time when a Committee had been appointed which would bave to judge of the very existence of their school.

Mr. Gostling also thought it would be wiser to wait until the report of the new Committee had been given in. No doubt all would agree with the statement which had been made by Mr. Schacht, but he should vote against the motion until they had received the report from the other

Committee.

Mr. Atkins took a similar view. While recognising the fairness with which the Vice-President had placed the results of his twelve months' experience before them, he presumed that what he really had in his mind was the education preceding the examination. He had read the pampllet which Professor Attfield had sent him, and had expressed a careful opinion on it, but before they, as a Council, decided to initiate a costly compulsory curriculum, they had to inquire whether the condition of the trade authorised it. The question of the expenditure on education might not be a pressing one in fine select businesses, but in hundreds of businesses in the country the balance of the value of the trade against the cost of preparing for it was not on the right side.

Mr. WILLIAMS, while admitting that many candidates not properly qualified might pass, saw great difficulty in departing from the present system of examining any who presented themselves. It had been considered that the requirements of apprenticeship would render a curriculum Evidently apprenticeship had proved inefficient. But were they to abandon their requirement of apprenticeship? They must remember, too, that conditions which might suit the South might be against the interests of the trade in North Britain. He regretted that Mr. Frazer had left, and that Mr. Mackay was not present to assist in this discussion. He believed their present Act of Parliament would not permit them to enforce a curriculum. By it the examiners were "empowered and required to examine all such persons as shall tender themselves for examination." He knew that such a regulation as was sug; ested would be likely to improve the candidates themselves, but he questioned whether its promotion would be popular just now with the trade or the public. If they made entrance into the trale more costly it might be a benefit to those who could take advantage of the opportunity, but he was not quite prepared to take a step which would have the effect of preventing the entrance of the less wealthy into the trade.

Mr. Andrews said that perbaps, as a young member, he would do better to give a silent vote, but, as he had for years taken a great interest in this subject, he claimed permission to say a word or two. He was sure that they would have to deal with the cramming system sooner or later, but he saw objections to appointing this Committee while another, working on an allied subject, was sitting. Could not the question be referred to the same Committee?

Mr. SAVAGE remarked that whatever was done they would always find a somewhat similar condition of affairs. They had enforced curricula for the College of Physicians and Surgeons, and yet they met with workers and non-workers

among the students for their diplomas.

Mr. Sandford, while agreeing as to the advantage which would result both to the examiner and to the student himself from the fact of his having been in a good school previous to examination, feared the time had not yet come to establish a curriculum. In 1852 and in 1868 enforced curricula were in disfavour with the public. But recent correspondence in the leading journals showed that opinion was gradually coming round to the belief that mere examination was not quite sufficient as a test of competence. Still he feared that public opinion would be opposed to any

attempt to make entrance into the trade more expensive. He appealed to Mr. Schacht to postpone his motion, at least until after the report of the other Committee had been received.

Mr. Bottle thought they had been rather begging the question. They had argued against a curriculum, though Mr. Schacht's motion was merely for a committee of inquiry. They were thinking of applying for an Amended Act, and if it should prove that the Committee concluded that a curriculum was desirable it would certainly be advisable that they should be prepared in good time to include that in any Amended Act they might go for.

Mr. SYMES wished to say that in seconding the proposition

Mr. SYMES wished to say that in seconding the proposition he had not committed himself to any definite course. He thought the Council had been doing to some degree the work of the Committee. The question for the Committee to consider was what was desirable to be done, and he thought they ought to consider that unfettered by any foregone con-

clusion.

Mr. RADLEY, while he believed the feeling of the country just now would be opposed to making the examinations stricter, or to any additions to the present requirements, would be disposed to vote for the motion in order to stimu-

late discussion by the trade.

Mr. Schacht, in reply, said he had no reason to complain of the course of the debate as long as it was understood, as Mr. Symes had said, that the proposal was only for a committee to inquire into the matter. He objected, however, to the insinuation, or rather the assumption in argument, that he was necessarily advocating an enforced curriculum. His motion was not the outcome of the pamphlet which had been referred to. The boards of examiners had certainly very distinctly, if not officially, expressed their views on this subject. The Committee of the Council which visited Scotland had received a very distinct intimation of the views of the examiners there. It had been urged that an amendment of the Pharmacy Act would be necessary if an enforced curriculum should be considered necessary. But since the passing of the act the Council had made a requirement of a tbree years' apprenticeship. He did not know whether in making that stipulation they had acted illegally. But at least, if it should prove that the Committee should recommend an enforced curriculum, and the Act did not need amendment, it was very much better that they should proceed to obtain their information in the quiet way which should precede legislation. He did not see that the other committee at all covered the ground which he proposed to cover. By voting for this motion they would only commit themselves to a motion for a full inquiry.

On a division the following seven voted for Mr. Schacht's motion:— Messrs. Bottle, Churchill, Radley, Robbins,

Schacht, Symes, and Woolley.

Against, six: — Messrs. Andrews, Gostling, Hampson, Hills, Sandford, and Williams.

The President and Messrs. Savage and Squire were present but did not vote.

The following Committee was then appointed:—The President, Vice-President, and Messrs. Atkins, Hampson, Markay, Sandford, and Symes.

Maskay, Sandford, and Symes.

A letter which had been addressed to the Council by Professor Attfield on this subject was referred to the Committee.

SALE OF PATENT MEDICINES.

A resolution passed by the Wigan Chemists and Druggists Association, urging the repeal of the patent medicine ex emption clause of the Pharmacy Act, was read.

The wife of a druggist in Philadelphia is mentioned in Cassell's Family Magazine, whose luxuriant cherelure is almost as long as that of another mentioned whose has measures 7 feet 6 inches long. That of the druggist's wifes so thick, that when seated upon a chair she can complete cover berself with it.

IFTHISSORTOFTHINGISKEPTUP CHEMISTRY WILLSOONBER SOLVEDINTOONEWORD.—A report of the Berliner Chemise Gesellschaft contains a note on the production of tetramethy diamidodiphenylmethan and naphthyldimethylamidopheny sulphon. If the latter is heated with nitric acid, pentanitr dimethylanilin and nitronaphthalinsulphite are produced.

The Pharmaceutical Exhibition.

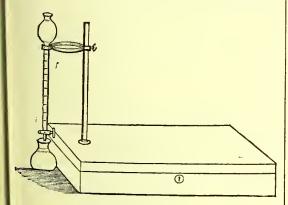
THE exhibition of chemical and pharmaceutical apparatus, held in the rooms of the Pharmaceutical Society on the 18th, 19th, and 20th of May, was an unqualified success. No exact record of the attendance was taken, but judging from the number of catalogues distributed, and from other data, it was estimated that about 500 chemists visited the rooms. We have heard, too, that many of the exhibitors had fair reason for satisfaction at the result.

The museums, the examination-room, and a laboratory on the top floor were set apart for the exhibition, and were well filled with objects of interest. In each room an official distinguished by a blue riband in his button-hole was present to answer all questions, catalogues were distributed freely, and a good many of the exhibitors or their representatives were present, ready to supply more complete information.

Without attempting to give a full description of all the bjects displayed (a complete catalogue of which we published last month in advance of the exhibition), it may be nteresting to make a few general notes, with special details from of the exhibits not generally familiar.

SCIENTIFIC PHARMACEUTICAL APPARATUS

formed the skeleton of the exhibition. Several of our pest houses contributed to this section, though in many nstances the usefulness of this collection was impaired by ack of space, which prevented anything much beyond herely spreading a number of instruments on a table. The ost prominent display of apparatus was made by Messrs. Orme & Co. (formerly M. Jackson & Co.), of Barbican. hey showed besides a large variety of Bohemian glass sks, beakers, and such-like laboratory requirements, speciens of the newest electric and galvanic instruments. They ad fitted up one of Hickley's patent telephones, communiting from the top to the bottom of the building. Among e apparatus shown was a specimen of Bayley's cuprimeter, described lately to the Chemical Society. It is constructed accordance with the observation that light reflected from a pper surface through a copper solution of a certain strength akes the copper appear silvery white. A comparative evelty was also exhibited under the title of "Mann's Gravi-This is a simple arrangement, designed to afford an



editious means of obtaining the specific gravity of subnces, the chemical constitution of which prohibits contact
h water, as, for example, Portland and other hydraulic
ents, limes, &c. In determining the specific gravity of
n substances by the ordinary method, it is necessary to
gh them in some liquid by which they are unaffected;
specific gravity of this liquid has also to be determined,
the results reduced to the standard of distilled water,
the gravimeter, as shown in the drawing, the specific
vity of solids can be taken quite independently of the
sity of the liquid used. It consists of a small flask, holdwhen filled to the dotted mark, a known volume of

liquid; and a graduated pipette furnished with a stop-cock. In using the gravimeter the pipette is filled to the mark with any suitable liquid (in the case of cements, petroleum is recommended), 1,000 grains of the substance under examination are then introduced into the flask, which is placed under the pipette and filled from it to the mark A; before this is quite completed, the flask can be corked, and the contents agitated, to remove any small air bubbles. The height of the column of liquid remaining in the pipette determines the specific gravity, which can be at once read off on the graduated stem. The case contains scales for weighing 1,000 grains of the substance to be examined.

Mess's. Orme's exhibit included also specimens of Balmain's luminous paint, a petroleum test apparatus on the new basis, Crookes' radiometers, Hughes' microphones, and other specialties.

Messrs. Townson & Mercer had a general show of apparatus, and in the laboratory they exhibited several specimens of Fletcher's furnaces.

A number of microscopes were on view, many with objects. Mr. Collins, of Great Portland Street, showed a good variety. Especial mention might be made of his special 5t. 10s. instrument, which is well adapted for almost all pharmaceutical, botanical, pathological, or histological work. It is very easy to work with, and the fittings are all thoroughly well made.

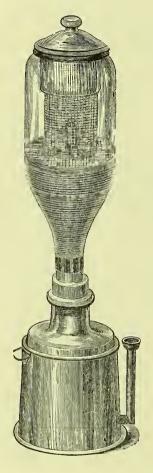
Other microscopes were exhibited by Messrs. C. Baker & Co., Dollond, and Murray & Heath. We noticed a very useful instrument suitable for pharmaceutical work made by Messrs. R. Field & Co., of Birmingham, selling at less than 5l. The same firm also exhibited a polarimeter similar in construction to the one described by Dr. Symes in his paper read at the Sheffield conference last year. It is fitted with a Jellet's prism (which consists of a large prism of cale spar sliced lengthwise, and the two halves joined in reversed positions), the light passing through a diaphragm with a circular opening, thus giving a circular field divided by a diametrical slit into two parts, in which the planes of polarisation are slightly inclined to each other. By this means, on rotating the analyser, the point of extinction is determined with greater precision than is usually attainable. The instrument is supplied with two tubes, of 100 and 200 m.m. length respectively, for holding the solutions to be examined. It is supplied, packed in a suitable ease, at 5 guineas. A lamp for producing the monochromatic sodium light to be used with the instrument was also exhibited.

Spectroscopes of various sizes were exhibited by Mr. Hilger, of Tottenham Court Road.

As suggestions to other pharmacists, and not as objects for sale, Dr. Symes exhibited a couple of notions designed by himself, and worthy of general adoption. With the permission of Dr. Symes we have taken sketches of these pieces of apparatus. The first is an arrangement wherehy boiling



water can be always ready in a few seconds for infusions or other purposes. The general gas-tube, as will be seen, supplies two branch tubes, which can be used separately or together as required. The small tube supplies the middle Bunsen's burner only, and gives but a small jet, consuming an inappreciable quantity of gas. By keeping this always burning the water above is always kept hot. Whenever it is required at boiling temperature the other tap is turned on, the other burners light themselves from the central jet, and the water boils almost immediately. The other apparatus is more elaborate. It is intended to provide a means for continuous percolation, for the preparation of extracts, and such-like processes. Spirit is passed through the packed material into the receiver. The latter stands in



a water bath, and is surrounded by hot water. This causes a constant evaporation of the spirit, the vapour of which passes up a tube to the upper part of the percolator. On the top is an ice-box, which condenses the vapour, and the process of percolation see mmences always with one supply of spirit.

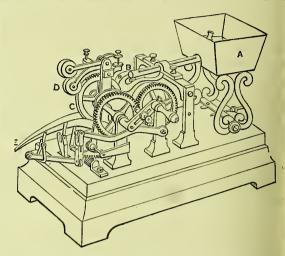
Mr. Cocking exhibited his simple cylindrical piping machine for pill masses. This brings a pound of pill mass into pipes ready for pill-making in five minutes. He also showed his mere elaborate arrangement by which pills are first piped from the mass, and then cut and rolled into pills by means of grooved cylinders working against each other.

A small model of Goodall's grinding apparatus, which is a pestle worked in a mortar by mechanical means, was on the table.

The whole arrangement for preparing Limousin's wafer cachets was exhibited by Messrs. Limousin & Co.'s agent, Mr. Lauranson, of the Blackfriars Road. These do not seem to have become popular in England, though in America and on the Continent they have been rather freely adopted. They are, when finished, little round embossed envelopes, varying in size from that of a sixpence to that of a florin, containing medicine such as quinine, rhubarb, Gregory's powder, magnesia, &c., inside, and its name outside. The big ones seem formidable things to swallow, but we are assured that they go down with great ease.

FRENCH PILL-PRINTING MACHINE.

An apparatus which attracted a good deal of attention was the very pretty little pill-printing machine exhibited by the inventor, M. Vial, of Paris. With the subjoined diagram we can probably make clear the modus operandi. The pills,

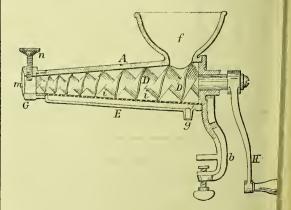


first coated, are placed in the hopper A, and are conducted from thence, one by one, along a small groove to B, where they drop through a cylinder to another groove. At a certain point in their passage they are brought in contact with a wheel c, which is being turned by the operator. On the outer rim of the wheel the type is fixed, it is inked from little rubber cylinders D as it revolves, and the pill meets the wheel just as the type approaches. It receives the impression in beautifully clear characters, and is henceforth unmistakable as to its properties, no matter in what company it may ultimately find itself. Our own private medicine chest for the past year or two has been a \{-oz. pill box containing perhaps a dozen varieties of these printed pills.

TINCTURE PRESSES.

Messrs. Lynch & Co.'s well-known and powerful druggists' press was in this section.

Specimens of the presses manufactured by the Enterprise Company of Philadelphia were also exhibited. One was the same which we described in February last, as shown in the drawing. It can be clamped to a counter, and works easily, and we are informed by Dr. Symes, who experimented

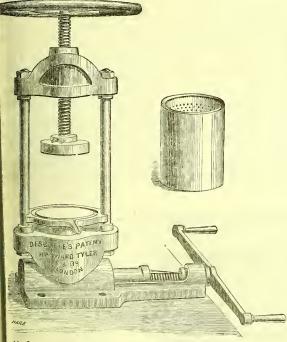


with it on the dregs of some tincture of hamamelis, succes fully. Another little press, also of American manufactur was novel only in the fact that the pressure was attained a winch-handle, working on cog-wheels, instead of by t usual vertical application of the screw.

Several varieties, possessing novel features, were exhibited by Messrs. John H. Ladd & Co., of London. The mo

prominent was the "Boomer" press, which is a mechanical arrangement claimed by the makers to be superior to hydraulic presses. The power is acquired by working a screw, which, by rotation, causes the joints of four levers to approach or diverge, according to the direction in which the screws are worked. In the machine exhibited, which is the smallest made, a pressure of 10 tons was said to be attainable, and the capacity of the press was 6 gallons. The same firm also showed a pretty small press made with enamelled interior, fitted with strainers, and with a base sloping towards the spout. The cylinder fits into the frame with a spring.

Messrs. Hayward Tyler & Co. exhibited Desgoffe's combined screw and hydraulic tincture-press, a drawing of which we show. In the smallest of these presses, with a



ylinder capacity of 3 quarts, a pressure of 10 tons may be obtained by hand power. The hydraulic pressure is pplied, as is shown in the engraving, by a screw instead of y a pump.

Mr. Nutter exhibited in action Johnson's hydraulic filter-A supply of chalk and water was forced into the ress, and run out as clear water, leaving the chalk in solid akes behind.

MIXING MACHINES

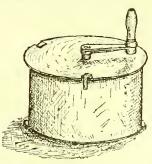
Vere rather specially prominent. There were several sizes Mr. Bracher's "Desideratum" mixer exhibited, intended



quantities of powder from 4 lbs. to 1 cwt. The principle

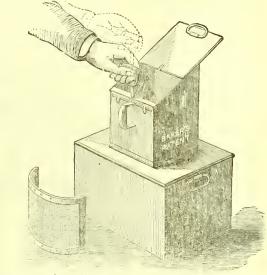
arms connected with the spindle revolve, which crush any lumps and rub the powder through the sieve. Below the sieve sloping blades revolve constantly, carrying the powder from the bottom upwards. Mr. Bracher's machine has found a good deal of favour.

Faija's patent mixing machine was exhibited by the wholesale agents, Messrs. S. Maw, Son & Thompson. It is



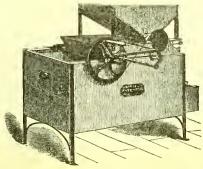
applicable to powders or to pomade or ointment mixtures. By an ingenious motion one or more mixers are made to run round the bottom of the vessel, revolving on their own axes as they go.

Baker's mixer is made in several sizes, and is worked by an agitator passing rapidly backwards and forwards in a



concave mesh. The mesh is easily removable for cleaning or for replacement by another finer or coarser. Messrs. Baker & Sons also exhibited their Morton's mixing machine for liquids, cold creams, or pomades. In this a regular whipping motion is provided, the blades working rapidly and closely to a concave surface.

Messrs. Baker showed also a very pretty model of a new mixing machine they are bringing out, which is



shown in the accompanying engraving. The powders are these is a spindle passing through a sieve. On the sieve put in the hopper, and their passage into the sifter below

may be made fast or slow as occasion may require. In the hopper are two cylinders, revolving in reverse directions, each being fitted with a number of blades. The powders thus get a good preliminary mixing. When they reach the sieve they are met with an agitator, and afterwards are rubbed through the sieve by the same machinery as in Baker's ordinary machines. A receiver drawer is fitted below, while the material not passing through the sieve can be tipped into the bin bebind. The hopper can, if desired, be also fitted with rollers to crush powdery lumps. All the motions are obtained, as will be seen, from the one wheel.

CHEMICALS.

The chemicals and drugs shown were not many, but were interesting. Most prominent in this department was the collection sent by Messrs. Fletcher & Fletcher, of Holloway. This included a mass of metallic bismuth, "refined by a new process, by which all traces of copper, silver, arsenicum, tellurium, selenium, sulphur, and phosphorus are eliminated." This claim is a large one, and manufacturing chemists will recognise its importance. Bismuth salts, chemically pure, could be, of course, prepared from such metal, and specimens asserted to be of such purity were exhibited. Messrs. Fletcher & Co. also exhibited their concentrated liquors for chemical syrups, and a solution of iodide of iron in this set was left open all through the exhibition without being in the least affected. They showed also some fine crystals of iodine, and a number of scale preparations.

Messrs. S. M. Burroughes & Co. had on show a considerable variety of English and American products, including the compressed tablets of various salts of Messrs. Wyeth & Co.'s manufacture, and granular effervescent salts of citrate of caffeine and extract of nux vomica manufactured by Mr.

specimen of sublimed menthol, in long silken hairs, attracting particular notice.

Messrs. Evans, Lescher & Webb showed "Fossiline," a new basis for ointments, and their "Effervescing Saline," a nongranulated powder of pleasant taste and known composi-

Chian turpentine was exhibited both by Hearon, Squire & Francis and Mackey, Mackey & Co. "Sanatizer" and "Oxychlorogene," two disinfectants of different character, were also exhibited by the latter firm.

Messrs. Young & Postans showed some ripe bael fruit,

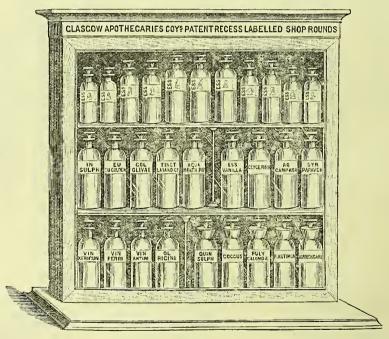
and an effervescent preparation of salicylate of quinine.

SHOP FITTINGS.

The chief novelty in this section was found in a case containing a number of specimens of the American patent recesslabelled shop rounds. All kinds of bottles labelled in this manner were exhibited, a variety of 30 different styles of labels being included. The general opinion was very favourable as regards appearance, while the advantage of a label let into the bottle and covered with glass, as regards cleanliness and permanence, was obvious. These were exhibited by the permanence, was obvious. These were exhibited by the agents, the Glasgow Apothecaries' Company. Perfume bottles, with female faces, were among this collection. Perfume Photographs of the rugged poison bottles were shown, but the articles themselves we did not find.

A dispensing counter, completely fitted, from the design which gained the prize offered by this journal some years ago, and awarded by Messrs. Hills, Ince, and Savory, was exhibited by the designer, Mr. Filmer Kidston.

Mr. S. Howlett was represented by a very well-made glass counter-case, with mirror-lined drawers, instead of the ordinary trays.



They also exhibited a large vase of their new ex-Bishop. tract of Hamanelis virginica, cr witch hazel.

Messrs. T. Christy & Co. sent a number of rare drugs and alkaloids. Among the crude drugs which we often read about, but very seldom see, were specimens of alstonia bark, dita bark, sassy bark, sweet bark from Australia, Australian pepper stem, Japanese gentian, Japanese belladonna root, moutan peony root, kusam root, coptis root, caroba leaves, papaw leaves, Paraguay tea, curari, goa powder.

A number of German chemicals, including a quinine series made by Jobst, of Stuttgardt, and American herbs and extracts were exhibited by Messrs. Burgoyne, Burbidges & Co.

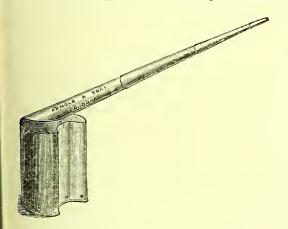
Messrs. Morson & Son had a few fine rare chemicals, a

MEDICAL APPLIANCES.

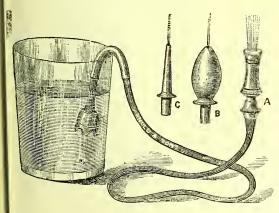
Messrs. J. Allen & Sons, of Marylebone Lane, had spec mens of their ingenious bronchitis kettles, hot-air an vapour baths, inhalers, and food-warmers, which we ha noticed in this journal on previous occasions. Their hot-a and vapour bath is a portable apparatus by means of wbi a Turkish bath can be provided in any bouse. Their bro chitis kettle may be used as an ordinary kettle, but it is constructed that by means of a tube which can be readi attached or detached vapour can be easily brought to patient reclining in a chair or in bed. They also showed croup kettle, such as is used at the East London Childre Hospital, by means of which warm air and steam are co

ducted into a tent which is made to surround the child's cot, and which may be regulated in amount as may be

An excellent collection of medical appliances were contributed by Messrs. Arnold & Sons, of Smithfield. These included various specimens of improved clinical thermometers with coloured scales, hypodermic syringes, with oil reservoir to keep the plunger always fit for use, and with coloured graduations. Lister's carbolic steam sprayproducers were interesting, and these and a number of enemas of various patterns gave a handsome appearance to Messrs. Arnold's collection. We may select for illustration from their exhibit (1) a simply constructed and comparatively inexpensive arrangement which can be set in an ordinary saucepan with some water, and then, in the form as shown in the drawing, can be used as a vaporiser or bron-



hitis kettle. Used with a lamp it may be converted into a ot-air bath, and by detaching a tube and applying a aouthpiece it serves as an inhaler. Another instrument which may not be generally known is Dr. Benton's mproved "Universal" douche for the eye, ear, nose, r for cleansing wounds. It can be dropped into a tumbler, nd then the action of a syphon being induced, an applicaon of liquid to the eye can be made by the rose A, to the ose by the jet B, or to the ear by the jet C. This instruent is particularly useful when, as in many cases, a forcible jection is undesirable.



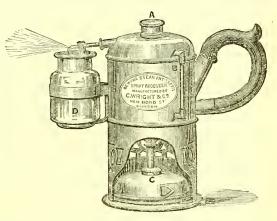
Jessrs. Arnold & Sons were just able to decorate their nd with the announcement that they had received the

lney Exhibition gold medal.

Ir. Cowan's vaccination shields, and Mr. Toomey's dental y, by means of which anyone without previous experience take a perfect impression of the mouth, were also exited, but these having been already described in this rnal do not need further details.

auty's patent poultices, exhibited by Messrs. Ayrton & inders, of Liverpool, are rubber bags made of such shapes to fit the several parts of the body for which they are inded, such as the throat, chest, or abdomen. The surface next the skin is covered with an absorbent material which may be soaked with warm water or with sedative stimulant, or antiseptic medicines, as may be required. Hot water inside the poultice will keep the poultice warm for a considerable time. It is obvious that these offer great advantages in many cases where the application of poultices or compresses is desirable.

Benham's steam antiseptic spray-producer, as shown in the annexed drawing, was exhibited by Messrs. C. Wright & Co., of New Bond Street. Water is poured into the boiler, and the quantity is shown by the glass gauge B. This is boiled by the lamp c. The vessel D contains a carbolic solution, and the apparatus, when in action, supplies a steam



impregnated to the requisite degree with carbolic acid, or whatever other antiseptic it may be desired to employ. the boiler is nearly filled the steam spray will work for nearly an hour. There is a safety-valve at A in case of a too rapid production of steam. The apparatus is especially useful for operations or dressing wounds in hospital or private practice.

REFLESHMENTS.

Various refreshing aërated waters were provided by tle makers, and each variety had its partisans. Zoedone was perhaps most sought after, but a new tonic fruit beverage, manufactured by Messrs. Palk & Smith, of Torquay, under the title of "Sparkling Rozelle," with an apple flavour, was fairly popular. Messrs. Godfrey & Cooke sent samples of "Eau Restaurative," an aërated solution of hypophosphites, and "Phosphade" and "Peptade," which it was understood were respectively effervescing solutions of hypophosphites and pepsine, were sent by Messrs. Idris, Trevena & Co. The same firm also exhibited syphons of aërated fluid magnesia, of B.P. strength, intended for dispensing purposes. This was a most desirable preparation, as, except by the aid of gas, it is impossible to keep magnesia in solution of B.P. strength When the gas has passed off the Pharmacopeia preparation exactly remains. In this department Messrs. Lorimer & Co.'s pepsine saucc may be mentioned, as, though there was no background for it in the way of fish or chops, it was frequently tasted by approving connoisseurs.

Among the refreshments, Messrs. Prentice Brothers, of Stowmarket, had a gay display of their "Florvita" and its results, represented by a number of fine conservatory

plants.

SUNDRIES.

Messrs. Lynch & Co. had a prominent display of medical appliances, bandages, trusses, &c. They also showed their well-known tincture-press and their new and simple pillcoater. A new spray-diffuser filled with perfume was in frequent requisition. They also exhibited glass measures bearing the stamp of verification.

Other verified measures and a complete series of the standards used for testing them were exhibited by Mr.

Toogood.

Messrs. Bourne & Taylor had a good variety of useful tools for chemists, such as suppository pans, stopper loosener, funnel measures, and pill scoops, besides medical appliances, such as clinical thermometers, absorbent cotton-wool inhalers, &c.

Messrs. Gabriel & Troke's horse balls in capsules, which

we mentioned recently, were shown.

Messrs. Erhardt & Co. showed specimens of vegetable parchment suitable for dialysis, and also some of the same material more elastic for capping, very thin and bright tin-foil the 5,000th of an inch in thickness, and a capsuling machine.

A case of Mr. W. T. Hunt's patent pleated caps for bottles was also exhibited.

A label-damper was shown by Mr. F. Gall, of Carshalton. It consisted of a cylinder in a glass well, in which water or thin paste might be poured. Above this cylinder another revolved, damping itself sufficiently, but not excessively, by conta t with its companion below.

A new cabinet of materia medica, very handsomely got up, and provided with glass covers to all the drawers (a very useful addition), was exhibited by Messrs. Wyleys, Walker & Co., of Coventry. The same firm also showed chemical apparatus, microscopes, and pharmaceutical preparations.

Some German shop-fittings and wooden cases for sending bottles by post were exhibited by Messrs. H. Poths & Co.

Probincial Reports.

ALLOA.

Poisoning by Nitre.—On May 27 a labourer named William Mathieson committed suicide here by drinking a solution of a pennyworth of saltpetre.

BARNSLEY.

SAD CASE OF POISONING BY MISTAKE AT HOYLAND NETHER.—On June 3 an inquest was held at Hoyland Nether, near Barnsley, touching the death of Jane Evans, aged 2½ years, the daughter of a miner residing at High Royd, near Hoyland, who died from having laudanum, instead of parcgoric, administered by mistake. It appears that the child was suffering from a cold, and the mother purchased two pennyworth of paregoric at the shop of Mr. Willey, at Hoyland, on May 29. She administered three doses to the child, which became affected by it, and died on June 1. Dr. Ritchie, of Hoyland, who was called in, found that laudanum, instead of paregoric, had been administered. The jury, after hearing the evidence, returned the following verdict:- "Inadvertently poisoned by laudanum sold by J. Willey, druggist, for paregoric." [We have received from Mr. Willey another version of the case. The bottle bore laudanum and paregoric labels supplied by another chemist besides Willey's paregoric label. When the doctor was called in the mother twice denied that she had given the child anything. On the third asking she admitted that she gave it three or four drops of paregoric on Saturday night and another dose on Monday night, an hour after which it became convulsed. The bottle she produced contained laudanum. Mr. Willey, who denies that he supplied laudanum in place of paregoric, only received notice half-an-hour before the inquest, and was unable to attend. Neither Dr. Ritchie nor his assistant, Mr. Moore, was present, or their evidence might have materially altered the complexion of the case.—Ed. C. & D.]

ASSAULT BY A CHEMIST.—On June 4 Thomas Bedford, of Mapplewell, Barnsley, variously described as chemist and druggist and as surgeon, was sentenced to three months' imprisonment, with hard labour, for striking his daughter on the head with a pestle while he was intoxicated.

DUBLIN.

MR. C. H. DOWLING, a Dublin chemist, has been awarded 1,750l. as compensation for personal injuries sustained by him in a collision on the London and North-Western Railway at Menai Bridge last December.

GALLOWAY V. BARRET.—On June 5, in the Exchequer Division of the High Court of Justice, an application for a new trial in this case was refused.

BATH

THE BATH WATERS .- Some excavations, made under the supervision of C. E. Davis, Esq., city architect, on the site of the King's bath, have brought to light a metal tablet bearing an inscription in eight lines. Professor Sayce suggests the following translation :-

Quintus has bathed [or washed] Vilbia for me With the water ; along with Cliquatis he has Saved her by means of QVIM TAEL [or TALE]. [His] pay [is] 500,000 pounds of copper coins or quinarii. [Signed by] G. Verinus Ærianus [Ælianus] Ex. Itianus the Augustal Priest [and] Sextius Catus Minianus along with Jovina Germanilla.

The letters are slightly indented, and are written backwards as if for printing from. The plate was found at a depth of 15 feet below the former level of the bath, in company with a number of coins.

GLASGOW.

CHEMISTS AND DRUGGISTS' ASSOCIATION.—The annual general meeting was held in Anderson's College on May 12 for the purpose of electing president and office bearers for session 1880-81. The retiring president, Mr. Kinninmont, F.C.S., occupied the chair. The secretary read a report of the council work of the closing session. Six meetings had been held at which papers were read, and three for trade At one of the latter a committee had been appointed to draw out a list of articles that might be reduced to meet the competition of outside traders, and give its results to the price-list committee. This having been done, the trade in and around Glasgow received circulars recommending the adoption of the reduced price for the articles mentioned therein. The council had tried to get up a chemistry class, under the charge of Dr. Milne, but as sufficient students did not come forward it could not be gone on with, much to the disappointment of Dr. Milne, who had given himself a good deal of trouble in preliminary arrangements. The number of members on the roll is just about the same as last session, and the attendance at the meetings during the session has been satisfactory. secretary of the assistants' section, Mr. Adam, reported that they had held five meetings during the session. The treasurer, Mr. Maltman, reported a balance of 71. 16s. 6d. over expenditure. The reports baving been adopted, the following officers were elected for the ensuing session:— President, Mr. Robert McAdam (Glasgow Apothecaries' Company); Vice-President, Mr. Robert Brodie; Hon. Secretary, Mr. John C. Hunter; Treasurer, Mr. Maltman; Librarian, Mr. Joseph A. Clarke. Members of Council: Messrs. Daniel Frazer, Alexander Kinninmont, Thos. Davison, John Currie (Sauchiehall Street), John McMillan, John W. Pettigrew, R. C. Rait, William Simpson, William Weir, John C. Steele, William White, and John Fenwick. Auditors, Mr. John Walker and Mr. Archibald Paterson.

TELEPHONIC EXCHANGE. — An effort is being made to connect the wholesale and retail chemists and medical men by telephone, and the movement has met with a fair amount of encouragement. A West-end pharmacy is at present connected by a private wire with the residence of a physician over a mile distant on another line of thoroughfare, and messages are transmitted, prescriptions received, and even consultations held with the greatest ease and accuracy. The apparatus is fitted at a completely enclosed desk in a convenient corner of the shop, the utmost privacy being thus secured.

HALIFAX.

WHAT IS PETROLEUM?—On May 28, at the Halifax Borough Court, John Wadsworth, painter, 8 Portland Street, was summoned for unlawfully keeping a quantity of petroleum without having a licence. Defendant had sold some naphtha to a detective which gave off an inflammable vapour at 63° Fahr. Defendant held that naphtha did not come within the meaning of the Act, and that the substance he sold did not constitute petroleum. He called Mr. Jonathan Pollard, chemist, Woolshops, who stated that he had seen a portion of the substance that had been seried by the police. portion of the substance that had been seized by the police. It was a "preparation from the destructive distillation of

rood," and known to the trade as rectified wood naphtha, not nineral naphtha, and another portion taken by the police was finish, methylated spirit and gum." What was intended y the Act was to prevent the sale of mineral oil products, nd neither of the substances seized was such product. The abstances were not the product of petroleum, coal, schale, hist, or any bituminous matter. Mr. W. B. Hebden, nemist, Northgate, gave similar evidence. The Bench dississed the case, but were willing to grant the Chief Conable a case for the Court above. The Chief Constable said would consider whether or not to take a case.

LONDONDERRY.

STRANGE PARTNERSHIP DISPUTE.—On Thursday last in ne Dublin Court of Chancery, Henry Taafe, late of the m of J. & G. M Caul, chemists and druggists, Londonerry, sued the other three partners, George B. M'Caul, m. A. Friselle, and James M'Caul, for the cancellation of ocuments which he alleged they had obtained from him by percion and fraud. On October 31 the defendants accused aintiff, in private and with great violence, of embezzling marked sovereign and of failing to account for 1,500% of e partnership money. Under threats of immediate procution it is alleged that they extorted from him two parate documents, a confession of guilt and liability, and transfer of all his property to one of the partners, includg a promise not to set up in business in Londonderry till teen years had elapsed. The other two partners signed as e only witnesses. The motive alleged is that plaintiff as very popular with the customers, and was suspected of intention to leave the partnership and set up in opposion. In defiance of the promise plaintiff had opened a shop posite the defendants, and the latter sought an injunction restrain him from carrying on business within ten miles Londonderry, and claiming 1,000% damages. The plainthereupon commenced this action, which was comomised on Friday by setting aside the disputed deeds, disution of the partnership, arbitration of the partnership alings, and payment of plaintiff's costs. All imputants on character on either side were withdrawn.

MACCLESFIELD.

Poisoning by Cherry-Laurel.—An inquest was held May 14 at the Parkside Asylum, near Macclesfield, on the dy of Richard Whalley, who for more than 23 years had en an inmate of asylums. On May 7 he was seen eating nel leaves, and swallowed a quantity. A few hours later complained of illness, and was put to bed. In the even-she was found unconscious and breathing heavily, and died out 10 p.m. Dr. Niel, on making the post-mortem amination, found 2 oz. of laurel leaves in the stomach, e jury found a verdict of death from accidental poisoning, t considered that the lunatics should be carefully kept in the laurel bushes.

NOTTINGHAM.

NOTTINGHAM AND NOTTS CHEMISTS' ASSOCIATION .e annual meeting was held at the Flying Horse Hotel, on ne 1, the President, Mr. R. Fitz Hugh, in the chair. The lowing were elected officers for the ensuing session:—sident, Mr. R. Fitz Hugh, F.C.S.; Vice-President, Mr. H. Parker; Treasurer, Mr. J. Rayner; Hon. Secretary, C. W. Warriner. Council: Messrs. Beverley, Bolton, B. Fletcher, Humphreys, Jackson, Oldershaw, W. Widdow-, and Wilford. Auditors, Messrs. F. White and J. Lewis. e secretary's report was then read, showing the Associan to be in a flourishing condition. The average at-dance at the meetings had considerably increased ing the past sessions. Classes for the study of materia dica had been conducted by Mr. R. Widdowson, and zes given to the successful students by the Council. asurer's report showed a balance in hand of 51l. 17s. 9d., ng an increase over last year. A discussion then took ce upon the best means of forwarding the interests of Association, in which most of the members took part. was resolved to call a special meeting to get the feeling the trade upon the Thursday half-holiday closing movent at an early date. The president, in the name of the sociation, then presented to Mr. Roberts Jackson a handsome timepiece and liqueur stand, as a testimonial upon his retirement from the office of hon secretary, which post he had held for the past five years, and for his untiring energy in promoting the interests of the Association and the trade in general. On the timepiece a plate bore the following inscription:—"Presented to Mr. Roberts Jackson by the Nottingham and Notts Chemists' Association as a recognition of his successful and energetic services as hon secretary to their society for a period of five years. Nottingham, June 2, 1880." Mr. Jackson replied in a very suitable speech, and heartily thanked the members for their kind appreciation of his services. After the usual votes of thanks were given to the retiring officers and the president, the meeting terminated.

PLYMOUTH.

Burglary at a Chemist's.—On Monday, May 24, early in the morning, the shop of Mr. Frederick Herron, 4 East Street, was broken into. About 5.30 a.m., Mr. Herron was awakened by a very strong smell of gas. Going downstairs he found that the small jet of gas in the shop used for sealing with wax was lit and turned on full. On going into the shop he leaned over the desk for the purpose of turning out the gas; he rested his hand on the desk, and then noticed that it had been broken open. The desk was cut away, and the lock wrenched from the wood. The cash-box was taken out of the desk, broken open, and about 50l. abstracted. The cash-box was left on the floor. The doors of the shop were open, and the iron bar across it was on the floor. On further examination it was found that there were no less than eight large jets of gas-two being in the window, the rest in different parts of the shop-turned full on, and the gas escaping therefrom. The burglar or burglars were probably frightened in their work, as there was a large quantity of stamps and papers near the desk which were not disturbed. The money taken was chiefly in gold and silver, 15t. only being in cheques. The burglar or burglars, it is supposed, broke the chain of the grating in Market Street, then pulled it up, and thus got into the cellar underneath the sbop. In the cellar there are steps leading to the shop, which is entered by means of a trap-door. After the robbery had been committed egress was made by the shop door. The jets of gas are thought to have been turned on for the purpose of blowing up the shop, so as to destroy the evidence of a burglary, or to blow up the house with the occupants, although leaving the shop door open seems to tell against that theory. The police have been investigating the affair. It seems curious that this should have happened with a policeman on the beat, and he not have observed the open doors and the gas burning within.

ROCHDALE.

MR. STEVENS, druggist, Townhead, Yorkshire Street, Roehdale, has had newspaper notoriety thrust upon him by a freak of the elements. On May 16, about 5 A.M., he and his family were awakened by a terrific noise, and some of the children saw sparks of fire. The framework of the shop window was found blown to the other side of the street, and a package of matches set on fire. At first it was thought that there had been an explosion of gas, but on further investigation it was found that in the skylight in the roof of the building a circular hole of one foot diameter had been made, and that a second light in the ceiling had been shattered to pieces, and the whole frame had been removed from its place. In the shop one or two parcels and some brushes were singed, and the door of the counter charred. Not a bottle was displaced, but the back window of the kitchen was broken. For want of a better explanation the mischief has been laid to a fire-ball.

SHEFFIELD.

AN INFRINGEMENT OF THE PHARMACY ACT.—At the Sheffield County Court, on June 3, an action was brought by the Pharmaceutical Society to recover a fine of 5l. and costs from William Rowland Hartley, of Neepsend Lane, in that town, for an infringement of the Pharmacy Act by carrying on business as a chemist and druggist, his name not being on the register. When the case was called on Mr. Granger, barrister, London, said he appeared on behalf of the Pharmaceutical Society, but he believed the defendant did not

appear. He could prove that the action had heen brought to his knowledge. Sydney Jessop was then called, and said: I am a clerk with Messrs. Bromhead, Wightman & Moore. I saw the defendant on Saturday morning at his shop in Neepsend Lane, and told him I had called about the action brought against him by the Pharmaceutical Society, and he told me he had received the summons. Jane Brown was next called, and said: I went on April 28 last to the shop of the defendant, where I saw him. I bought a pennyworth each of castor oil, of red precipitate, and of paregoric. I gave Mr. Ward the packet of precipitate. Mr. William Ward said: I am a pharmaceutical chemist, and I received the packet from the last witness. I analysed some of the contents, and found them to answer the true test of the Pharmacopæia of red precipitate. That is one of the poisons in the schedule of the Act. His Honour: There will he judgment for 5l., with full costs. How is it to he paid? Mr. Granger: The Society would like it as soon as possible. His Honour: The High Bailiff says he has no goods. (Laughter.) You can take the order in any way you like. Mr. Granger: I will ask for payment forthwith, and we will do the hest we can. Judgment for the 5l. and costs.

ADULTERATED PAREGORIC SOLD BY A HERBALIST.—At the Sheffield Town Hall, on June 9, John Skelton, herhalist, No. 144, Gleadless Road, Heeley, was summoned for selling, on the 17th ult., to Inspector Patrick O'Connell, paregoric which was not of the nature and substance of the article demanded. The Town Clerk prosecuted, and Mr. Henry Auty defended. The defendant's wife appeared in answer to the summons. Mr. Auty admitted the offence. Mr. A. H. Allen (horough analyst) said the sample submitted to him did not contain any opium. Mr. Auty, in addressing the bench for a mitigation of the penalty, contended that the defendant was not allowed to sell paregoric, and that the article sold was a halsam of aniseed. The sale of it as paregoric was an error of an agent of the defendant's. The magistrate said he saw no grounds for reducing the penalty. His opinion was that the case was a had one. The defendant was a herhalist. A herhalist professed not to sell drugs, but to supply other things which were to serve the same purpose. Persons ignorant of the distinction hetween a druggist and a herhalist might go to the defendant's shop to huy drugs. They might ask for a drug and get some nonsense instead. It was a fraud upon the druggists and a fraud upon the party who went to buy. The defendant would he fined 5l. and 18s. 6d. costs, or in default one month's imprisonment. THIRSK.

A Coroner on the Sale of Laudanum.—On June 2 an inquest was held at Thirsk concerning the death of Harriet Clarkson, a domestic servant, 16 years of age, who had heen found dead in hed that morning at the house of Mr. R. Jaques, postmaster. It was sworn to by two or three witnesses that the girl had heen subject to toothache, and on the previous night had obtained at a chemist's shop in Thirsk a 3-oz hottle of laudanum. The hottle was properly lahelled, but the deceased could neither read nor write. The Coroner (Mr. Walton) strongly condemned the law as it now stands as regards supplying indiscriminately laudanum in any quantity. He thought that at least the parties by whom it was sold ought to be personally acquainted with those to whom they were supplying it. The jury returned a verdict of "Found Dead."

COMPARATIVE COST AND VALUE OF THE CINCHONA ALKALOIDS.—Dr. Hager, in a paper in the Bunzlauer Pharmaceutische Zeitung, gives the results of some experiments made on himself to decide this question. Pills containing considerable doses of the alkaloids were used to relieve catarrh, and the antipyretic value and cost in shillings for 100 grammes are given in the following table:—

		Anti	Cost		
Quinine sulphate			100		95
Quinidine sulphate			90	• •	55
Cinchonidine sulphate	• •	• •	70		30
Cinchonine sulphate	• •		40	••	10

This table means that $2\frac{1}{2}$ grains of cinchonine sulphate in a dose will produce the same antipyretic effect as 1 grain of quinine in a dose, which costs four times as much.

BOTTLING AËRATED WATERS.

(Notes of Experiments on the Pressures used in Bottling Soda Water. By Mr. John Briggs, of Hayward Tyler & Co., London.)

AVING heen engaged for more than 40 years in the firm of Hayward Tyler & Co., in manufacturing machinery for aërating soda water, lemonade, and similar heverages, have heen hrought in contact with a large number of sodawater makers, hoth in London and the country, and I have noticed that the pressures at which aërated waters are bottled differ very much with the different makers. Some are of opinion that a very high pressure is required to aërate soda water in order to produce a superior article. It, however, is my opinion, and has heen for some years, that as good, and even hetter, articles can he made at a much less pressure than the 120 lhs. generally used, and at this pressure, I believe, a large quantity of gas is wasted in easing the bottle hefore inserting the cork; and, again, the loss sustained in the hreakage of hottles forms a serious item, as well as the consumption of acid and whiting used in making the gas.

To satisfy myself, I decided on trying some experiments, my object heing, first, to ascertain the average pressure, and, secondly, the quantity of gas contained in each hottle from various samples. To accomplish this I provided myself with a small gasometer of such capacity that each inch of depth equalled the average quantity of water contained in a hottle—namely, 19 cubic inches. The average pressure in a dozen hottles was about 39 lbs. per square inch, ascertained by a small pressure-gauge introduced into the cork of each hottle. This was done with every hottle hefore letting off the gas into the gasometer. I then removed the gauge and attached a small indiaruhher pipe from the cork to the gasometer, and on opening the cork the gas passed from the hottle into the gasometer, which continued to rise until all the gas had passed off; this occupied from half to three-quarters of ar hour. I allowed some of the hottles to remain on all night to see if all the gas had passed off, and found the gasometer had not risen in the slightest degree after the first hour.

The gasometer, as I have already stated, was of such capacit that each inch of rise equalled the average quantity of wate in the hottles, or 19 cuhic inches, and would, therefore, represent the number of volumes of gas to one of water, chulk for hulk. There is, however, one volume of gas remaining in the water, held there hy chemical affinity, which cannot be separated hy heat, and to prove this I had threse parate bottles put into hoiling water, and each one gas out exactly 19 inches of gas. This perfectly agrees will what is stated hy chemists, that water will absorb its ow hulk of gas under atmospheric pressure.

The first experiment I tried was with seven hottles, bottle at 100 lhs. pressure. The first (bottled at 100 lbs.) show 40 lhs. pressure in the hottle by pressure-gauge, and ga out 2\frac{3}{4} volumes of gas; the second hottle (pressure of 28 lbs.) gave out 2\frac{1}{4} volumes of gas; the third bott (pressure 30 lbs.) gave out 2\frac{1}{4} volumes of gas; the third bott (pressure 30 lbs.) gave out 2\frac{1}{4} volumes of cas.

(pressure 30 lhs.) gave out 2½ volumes of cas.

I next tried two hottles opened in the usual w (without trying them with the testing-gauge), one bottl at 120 lhs. and the other 100 lhs., and poured the contents into separate glasses. The one at 100 lbs. gave thest result, giving out the gas more freely; hoth gave the gas in a great shower of fine hubbles, which graduadied off in about half an hour. I tried two other bott one hottled at 100 lhs. the other at 120 lbs., the pressure the hottles was 36 lhs. for the one bottled at 120 lbs., \$38 lhs. for that hottled at 100 lbs. They gave as nearly possible the same result as to quality of water. The one 100 lbs. gave the hest after standing half an hour.

I was now quite satisfied that a higher pressure the 100 lbs. at hottling is not needed, hut for more compliant proof I determined to go more extensively into the matas will he seen by the following tables, Nos. 1, 2, and which are the results obtained in using the small granter I have already described.

TABLE No. I.

No. of Bottles	Lbs. Pressure in Bottles	Vols. of Gas to 1 of Water	Cubic In. to 19 of Water		
	34 44 46 48 40 44 43 31 40 40 28 30	3 3·5 3·75 4·75 3·25 3·25 2·5 2·5 2·5 2·75 2·25 3·5	57 66:5 71:25 90:25 57:61:75 61:75 47:5 47:5 42:25 42:75 66:5		
	468	38	722:00		
Me	an 39	3-10	60-00		

his table shows the result of first experiment with pottles, bottled at 120 lbs. pressure, showing the pressure each bottle by pressure-gauge, the number of volumes gas to one of water, and number of cubic inches of gas. results of these experiments are not what I anticipated. spected the same pressures would give the same result, ead of which they differ materially (see Nos. 5, 9, 10). adding up the pressures into one sum and dividing by we get a mean pressure of 39 lbs., and by adding up the imes of gas and dividing by 12 we get 3.10 as the mean imes of gas to one of water, and reckoning in like mer the cubic inches of gas we have 60 cubic inches of to each bottle, plus 19 combined by chemical affinity in water. These experiments tend to prove that there is advantage in bottling at high pressures, the whole of the vere bottled at 120 lbs. pressure, and yet the mean presin the bottle is only 39 lbs., showing a loss of 81 lbs. in ling, and yet there was an abundance of gas in the er, each bottle throwing up an immense shower of bles. I opened several of these bottles and poured the ents into a glass; they gave each the same result, and soda water was so pungent that it could not be swallowed ne draught. I should, therefore, give as my opinion that standard pressure in the bottle should not be so much 45 lbs., which was the pressure formerly considered essarv.

TABLE No. 2.

esults of experiment to ascertain the quantity of caric acid contained in 10 bottles of soda water bottled at crent pressures, from 100 lhs. to 180 lbs.:—

Н												
O	Bottled a	at essure	120	Bottled a Lbs. Pre	it essure	Bottled at 180 Lbs. Pressure						
	Lbs. Pressure in Bottles	Vols. of Gas to 1 of Water	No. of Bottles	Lbs. Pressure in Bottles	Vols. of Gas to 1 of Water	No. of Bottles	Lbs. Pressure in Bottles	Vols. of Gas to 1 of Water				
	40 28 30 31 32 40 40 34 40 25	31-1-1-2-1-2-1-2-1-2-1-2-1-2-1-2-1-2-1-2	1 2 3 4 5 6 7 8 9	34 44½ 46 48 40 44 43 31 40 30	3 123434 3 434 3 341422 2 2 4412 3 3 4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 2 3 4 5 6 7 8 9	30 30 30 31 44 40 46 46 45	4 4 3½ 3 4 3½ 4 4½ 4 4 4				
	340	30		400.5	32.75		390	38 5				
	34	3	Mean	40	3-27	Mean	39	3 85				

opened a bottle to each pressure and poured the contents separate glasses to see if there was any difference in effervescence, and they were all alike as near as possible.

This table also tends to show that there is no advantage to be gained by high pressures, for those bottled at 180 lbs. give a lower mean pressure than those bottled at 120 lbs., and only 4 lbs. more than those at 100 lbs., while the volumes of gas do not increase at all in proportion to the pressure used in bottling.

TABLE No. 3.

The following table shows the result of experiments on 35 bottles, showing the pressure, the number of volumes of gas to 1 of water, and also the number of cubic inches of gas in each bottle; these were bottled at different pressures from 30 to 120 lbs.:—

	led at : Pressur			led at 4 Pressu		Bottled at 60 lbs. Pressure			
Nos. of Bottles	Lbs. Pressure in Bottles	Vols. of Gas to I of Water	Nos. of Bottles	Lbs. Frescure in Bottles	Vols. of Gas to 1 of Water	Nos. of Bottles	Lbs. Pressure in Bottles	Vols. of Gas to 1 of Water	
1 2 3 4 5	29 23 26 24 28	$\begin{array}{c} 2\frac{3}{4} \\ 2\frac{1}{4} \\ 2\frac{1}{4} \\ 1\frac{3}{4} \\ 2\frac{1}{2} \end{array}$	1 2 3 4 5	26 26 28 26 24	21 24 24 24 24 21 2	1 2 3 4 5	28 36½ 30 28 29	23 3 23 2 2 2 2	
	130	11 5		130	11 0		151.5	12.75	
Mean	26	2.3	Mean	26	2.2	Mean	30.3	2 55	
	ed at 8 Pressnr			ed at 90 Pressure		Bottled at 100 lbs. Pressure			
1 2 3 4 5	36 28 33 32 30	34 21 21 21 21 21 21 32 32 32 32 32 32 32 32 32 32 32 32 32	1 2 3 4 5	36 36 45 38 44	312 32 33 15 33 15 33 15 33 15 33 15	1 2 3 4 5	40 44 38 36 40	3 ³ / ₄ 4 4 4 3 ³ / ₄	
	164	15.0		199	17:0		198	19.5	
Mean	32.8	3.0	Mean	39.8	3.4	Mean	39*6	3.9	

Boutled at 120 lbs. Pressure

	Nos. of Bottles				Lbs. Pressure in Bottles	Vols. of Gas in 1 of Water	
1 2 3 4 5			••			45 54 54 54 48	41 5 5 5 51 43
						255	24.25
	Mean		••			51	4.85

The above were bottled for me expressly by a well-known firm at different pressures to ascertain which gave the best result. I had six to cach pressure, but kept one of cach back for the purpose of pouring into a glass to try the effervescence at the different pressures, and also the pungency on the palate. In each case (with one exception) the water was well acrated, but did not effervesce to come over the neck of the bottle. The specimen, however, which had been bottled at 120 lbs. pressure discharged the cork and came over the neck of the bottle with considerable waste.

The conclusion I draw from the above experiment is that the uniform bottling pressure should be 90 to 100 lbs., and also that soda-water makers should provide themselves with a small testing-gauge to try the pressure occasionally in the bottles when the men are at work, to see they keep up the pressure in the bottles to the standard pressure, which should be about 40 lbs., but even a lower pressure produces a water

quite satisfactory to general consumers.

The results of using excessive pressures (anything above 120 lbs.) are, firstly, loss of profit to the maker, owing to the waste of materials used in producing the gas, and needless wear and tear of machinery; and, secondly, inconvenience (amounting to positive danger) and loss to the consumer, owing to the blowing out of the cork in opening, and overflow of the water when opened.

Chemists' Assistants' Association.

WE find from a report of this Society to the end of last April, which has been sent to us, that the third session has been completed, and that the Association now numbers 75 members, an increase of 21 over last year. They have held 14 scientific and eight social meetings, the attendance averaging 20 members and 4 visitors. Their conversazione on October 22 cost the Association 16l. 0s. 6d., while the dinner on January 28, at which 91 members and friends were present, resulted in a favourable balance of 1l. 6s. 11d. The following subscriptions and donations are recorded:-

							£	s.	d.
Allen & Hanbury						• •	1	1	0
Attfield, Professor							1	1	0
Barron, Squire & Co.							1	1	0
Bentley, Professor							1	1	0
Branson, M							0 1	0	6
Butt, E. N., Esq.				••			1	1	0
Cardwell, Mr							0 1	0	6
Dobell, Dr. (toawrds							1	i	0
" , (towards							1	0	0
Evans, Lescher & We								ĭ	0
Glover, Mr								ī	0
Hearon, Squire & Fr								î	Ö
Hill & Son		::	::					î	0
Hodgkinson, Stead &			••			::		î	ŏ
Horner & Sons		JUCI	••	••		::		î	ŏ
James, Mr.			••	••	••		0 1		6
Luff, A. P., Esq.				••	••	••		ĭ	ŏ
Maw, Son & Thomps			••	••	• •			î	ŏ
Naylor, Mr		••	• •	••	••		î ı		ö
Nockolds, S., Esq.	• •	••	••	••	• •	••		1	ö
Parker, Mr	• •	••	••	••	••	• •		i	ő
Phillips, Mr	• •	••	••	••	••	••		2	6
Postans, A. W., Esq.	••	••	• •	••	••	••		ī	0
Robbins, J., Esq.	••	••	• •	••	••	••		1	ŏ
Savory & Moore	••	••	• •	••	• •	••		2	ő
Smart, W., Esq.	••	• •	• •	• •	• •	• •		1	0
	••	••		•••	• •	• •	0 1		0
Stuart, Mr. C. E. (to			sazion	e)	• •	• •	0 1		6
Stuart, J. E , Esq.	• •	• •	• •	• •	••	• •			
Smith & Co	• •	••	• •	• •	• •	••		1	0
Toogood, Messrs.	• •	• •	• •	• •	• •	• •		1	0
Williams, J., Esq.		• •	• •	• •	• •	• •	2	$\frac{2}{1}$	0
Wright, Layman & U	mney		• •	• •	• •	• •	1	1	0

CHIAN TURPENTINE.

IN the Lancet of May 15 Professor Clay describes the characters of the genuine Chian turpentine used in his experiments. A fortnight later a letter on its chemistry was published in the same journal by G. W. Wigner, who also embodied the results of his experiments in a paper read before the Society of Analysts on June 2. It cannot be said that these writers clear up all obscurities, for though agreeing in many points with what has been written before, their contradictions are important. Knowing the difficulty of procuring the Chian turpentine genuine, Professor Clay relied in the first instance upon the characters given in Watts' "Chemistry," vol. v., p. 920, as tests of its purity. The drug he used was many years old, and agreed with the following description given by Watts: "Yellowish-green, has an odour of fennel and elemi, and an aromatic taste like that of mastic. It dissolves completely in ether, and partially in alcohol, leaving a glutinous residue." He next quotes the excellent description of the drug given in Flückiger and Hanbury's Pharmacographia: "Chian turpentine, as found in commerce and believed to be genuine, is a soft solid, becoming brittle by exposure to the air; viewed in mass it appears opaque, and of a dull brown hue. If pressed while warm

between two slips of glass it is seen to be transparent, of a yellowish-brown, and much contaminated by various impurities in a state of fine division. It has an agreeable, mild terebinthinous odour and very little taste. The whitish powder with which old Chian turpentine becomes covered shows no trace of crystalline structure when examined under the microscope."

The authentic specimen collected by Maltass is described a few lines before in the Pharmacographia as transparent, and on page 167 it is stated expressly that "Chian turpentine deprived of its essential oil by a gentle heat dissolves entirely (impurities excepted) in alcohol sp. gr. 0.815." This statement occurs not in the "description" of the drug, but under the "chemical composition." It is not quoted by Professor Clay, who states that the specimens he used corresponded in every particular with the two descriptions from Watts and the Pharmacographia. A little further on he states expressly that if the turpentine "does not dissolve in alcohol, but leaves a glutinous residue, then, all other things being equal, it is pure." On this point Mr. Wigner says in the Lancet: " It dissolves freely in hot alcohol of 60 overproof, but a portion of one of the resins separates on cooling." In the Analyst he remarks: "The solution hecomes slightly milky when cold."

Professor Clay says that the pure drug is of such a solid nature that a portion taken between the fingers may be rolled into the form of a pill without adhave been supplied to the public have been of a syrupy consistence. The odour of the genuine drug is fragrant, and is not by any means similar to that of turpentine oil, whilst the spurious kinds smell strongly of the latter substance. The taste of the pure article is characteristic in not being upplessant. It should be brittle ret teristic in not being unpleasant. It should be hrittle yet elastic. If a piece is warmed, rolled out, and allowed to cool, and is then dropped on the floor, it generally breaks into a number of fragments. If placed in a shallow vessel it usually flattens and spreads over the vessel, the surface being smooth. When placed between two pieces of warmed glass its appearance corresponds exactly with that given in the Pharmacographia. It is best to take a piece of glass, warm it very slightly with a piece of lighted paper, clean it, and then place the drug to be examined upon it; then cover the drug with another piece of glass, and allow both to cool; then by holding the double glass up to the light the characters are readily distinguished. If the drug is spurious, consisting perhaps of strained crude turpentine or Venice turpentine, and so placed between warm glass, it will present the appearance almost of water If Chian turpentine is adulterated with Canada balsam, or a gentle heat being applied to the glass on which it i applied the Chian turpentine remains in the centre and the balsam flows over the glass, the reason being that the forme requires a little stronger heat to liquefy it. If black resi is mixed with Venice turpentine, to make the specime resemble the impurities of the real article, the compound i of a syrupy consistence only, and on heating the mass sufficiently between two glasses the resin is melted, so the the apparent impurities which it presented disappear, whil these remain permanent in the genuine drug. Canad balsam when heated becomes transparent, and perhaps more so if the heating is repeated, and the smell is of a well marked sickly odour. If the spurious kind consists large of resin and a piece is put on a spatula and a lighted tap applied to it, the characteristic resinous odour is at one obtained.

Mr. Wigner has analysed four samples of the turpentin The first was obtained from Allen & Hanburys, and w about 10 years old Its sp. gr. was 1,050 at 60° Fahr. dissolved easily in cold absolute alcohol, ether, chlorofor and carbon bisulphide. Alcohol 60 over proof dissolved on boiling, the solution becoming slightly milky on coc The turpentine contained two different resins, of which saponifies readily with sodium carbonate (4.0 per cent and another which saponifies less easily, but forms a far le soluble soap (79.0 per cent.). Apparently, Mr. Wigner d not apply any tests to identify these resins, or to compa them with the resins of mastic, as he says: "It appear likely from its appearance and character that the latt corresponds pretty closely with the alpha resin of mastic. The resin which is easily saponified he names gamma res

sample contained 9.2 per cent. of volatile oil. A er cent. solution of the turpentine rotated the ray of rised light 9° 12′ to the right in a tube 200 m.m. long, essential oil for the same solution gave a rotation of 4′, leaving 7° 18′ as the rotation due to the resins. rrities, chiefly sand, amounted to 7.3 per cent.

e second sample was newer and somewhat softer, but contained 9·2 per cent. of oil, rotating under the above itions the polarised ray 1·54 to the right. These figures exactly the same as those given by the older sample, sp. gr. was 1052, rather higher than that of the first ble. The impurities, 3·4 per cent., consisted of woody 2·0; ash, 1·4. The so-called alpha resin amounted to recent, the gamma resin to 6 per cent. The solution e resins rotated the polarised ray 5° 52′ to the right. sp. gr. of the third sample was 10·43. The rotation in polariscope was practically identical with that of the sample, but the percentage of volatile oil was much r—12·1 per cent.; that of impurities was smaller.

ne of these had the aromatic taste of mastic, which her regards as a sign of impurity, in opposition to Clay, ourt, the Pharmacographia, and Watts' chemistry. irst two samples contained traces of benzoic acid—a ituent not previously detected. Two sophisticated les contained 26 and 16.3 per cent. of volatile oil ctively, with sp. gr. 1000 and 1025.

e sp. gr. affords, says Mr. Wigner, a practical test. uine Chian turpentine should float in a solution contains a g per cent. by weight of concentrated sulphuric acid, a hould sink as soon as this is diluted. On the other in the adulterants used being lighter than water, the pus samples will float in this acid even after it has been did ad, say, to three times its volume, and will sometimes thou in pure water. This test is perfectly easy to are the contained to the contained the containe

re than one surgeon has written to the *Times* and the was medical journals stating that at present no satisfactor results have been obtained from the use of Chian untine in cancer. Professor Clay has in most of these as stated that the drug used was impure, and in a letter in a last issue of the *Lancet* he states that in his hands ost satisfactory results continue to be produced by the tend in cancer of the various organs.



SPARKLING PHOSPHADE.

is the name of a new aërated beverage, manufactured essrs. Idris & Co., who have just removed from way to Haverstock Hill, where they occupy the large lately vacated by the Temperance Beverage Company Liddel. Phosphade is a very agreeably flavoured drink, contains in solution the hypophosphites of iron, lime, one of the contains in solution the hypophosphites of iron, lime, and soda. It was on draught at the recent Pharmala Exhibition, and its general get-up and its refreshality won a good deal of favour. It is put up in large mall champagne bottles, and also in seltzer bottles. Idris & Co. are going into the general mineral water for chemists in a very spirited manner, their price list a very moderate one.

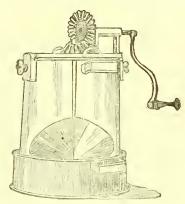
HYPHOSPHINE.

CA April number (page 170) we abstracted from the Br h Medical Journal an article by Dr. Frederick ail, recommending a solution of the hypophosphites atter "chemical food" than the mere suspension of the attention attention that name. Impressed with his remarks, Messrs. Co. have combined Dr. Churchill's solution of the

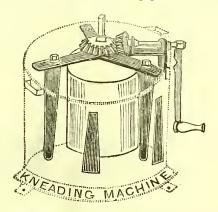
hypophosphites in the wine recommended by him with cod-liver oil in such a way as to form an inseparable emulsion, free from gums or alkalies. It has a rather sharp taste, with the fishiness which necessarily accompanies codliver oil, but is certainly more easily assimilated than the oil alone, though it contains half its weight in pure oil. It is especially recommended in cases of brain or nervous exhaustion, and in emaciation, and during nursing. Pharmaceutically, the preparation is, no doubt, to be commended.

HANCOCK'S NEW MIXERS.

WE have been shown by Messrs. F. & C. Hancock, of Dudley, whose mechanical ingenuity we have had occasion to remark on before, two new forms of apparatus for different mixing purposes. The first illustrated is intended for fluids and semi-fluids, or for emulsions, where these are required to be



made on a large scale. The machine is well adapted for such mixtures as paste or paints, as it has a powerful action in breaking up coagulated powders. As will be seen, it is worked by means of a revolving fan, which can be sent round with great speed. The vessel has a concave bottom, and the fluid is whisked up and round with great force. Attached to the sides are several blades at right angles, and by these the stream, which would otherwise be a simple whirlpool, is continually broken, and the ingredients are thus thoroughly mixed. The other machine is a kneading machine, and is suitable for mixing pill masses. In this



case the powders, with the excipient, are placed in the cylinder, and by a series of revolving blades at different distances from the circumference, the mass is pressed into all sorts of shapes against the sides, and also against several fixed upright blocks. We have seen dough made very rapidly by this machine without being touched by hand.

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2/9	,,	73	21	**	• •	• •	24/0	,,			discount.
4/6 11/0	"	,,	$\frac{54}{216}$	"	••	••	42/0 11/0	net.	,	,	
A	mixed	parcel	216 to value	78/ net	, at	6/6,1	8/, 34/	, and	120/	per	dozen.

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CHRISMA—A NEW BASIS FOR OINTMENTS. See 99.

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IMPROVED JUJUBES (PATENT). Fer page 99.

A GOOD MARKET FOR COD LIVER OIL Bage 5.

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SALICYLATE of QUININE.

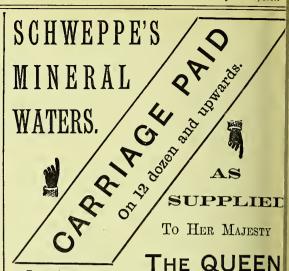
THE NEW REMEDY AND SPECIFIC FOR RHEUMATISM AND RHEUMATIC GOUT. Vide an article in The Lancet for April 3rd, 1880, by Dr. Archibald Hewan.

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BAKER. MAY

SPECIAL NOTICE





A PHARMACEUTICAL CURRICULUM

THE tentative suggestion of a compulsory education curriculum for pharmaceutical candidates, which we antipated two months ago, has now been made, and, no dou will form the subject of considerable discussion for so time to come. The Pharmaceutical Council, on the moti of Mr. Schacht, have appointed a Committee "to inqu into and consider the relation to each other of pharmace tical education and pharmaceutical examinations." T Committee is, in theory, supposed to start on its investig tory proceedings with a perfectly blank mind, and I Schacht expressly declares that he has formulated opinion as to the conclusions to which it may be drive Nevertheless, everyone supposes that the only probable co clusion it will arrive at is that a compulsory curriculum e ducation is desirable.

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at, at all events, is a suggestion which will occupy the at ation of the Committee. Of the members appointed to on it, it may be assumed that at least half are antecey of the opinion that the time has not yet come for such ulation. For ourselves, we cannot see that, if a remedy is y needed for any grave disorder in the pharmaceutical m, this one is such a dangerous one as some gentlemen to imagine.

e symptoms are stated by Mr. Schacht. He, as Vicedent, has had frequent opportunities of attending the inations, and he tells us what he has observed. He that the candidates who present themselves may be ed into three classes—those who are evidently wellated; those who are hopelessly ignorant; and those are to a certain degree informed on the subjects on h they are questioned, hut whose chief talent lies in their in deceiving the examiners as to the actual extent of knowledge. It is this third section who give the le, and they are, perhaps, a majority of the wholeare, in brief, the crammed students.

wit must strike everyone that if candidates can he so ear classified their arts of deception can hardly be so marve is as they are represented to be. The examiners, we ar old, are wonderfully able, and the standard of the ex inations is as near perfection as a sublunary arrangem well can be, and yet these raw hoys with a month or two varnish are too much for the whole hody. Clearly the is some work for the inquisitive powers of the Comm e in this.

is, however, unquestionable that crammed students do proat themselves, and that crammed students are the most digit subjects with which the examiners have to deal. It sy be, too, that a crammed student occasionally gets th gh, and forgets forthwith all he has learned. It should be nembered, however, that these crammed students have pa 1 through a curriculum of some sort, and are not ex ly the section who would he got at hy such a regulation. As r. Savage very justly pointed out, cramming is sure to ex whether there is a compulsory curriculum or not. It is qu a recognised institution among the students for the me al and legal examinations, and would to some extent be cu rated rather than prevented by a compulsory curriculum. ll, we do helieve that the future of the pharmacist dc argely depend on his scientific education. Competition

wi choke off his business altogether unless he develope generally the scientific and personal qualifications ap priate to his calling. These can only he properly ded by some sort of academic training. d, and not so much out of regard to the comfort or of examiners, we have some desire to see the comement of a compulsory curriculum. We cannot all ether see the force of the argument (used by Mr. At s) that the present depressed condition of the trade ha y warrants making entrance into it more difficult or 7. It seems to us that such a condition is one of the arguments in its favour. As a simple matter of comal advantage to those who are already in the trade it he obvious that any check to new comers is likely to eful. But the Pharmaceutical Council have no right nsider the question from that point of view. They however, consider that if the trade is as had as Mr. is describes it, no greater kindness can be shown to ants to its miseries than to make them understand that ospects for mere huyers and sellers are rapidly closing ad that it only offers chances of success in the future to who can prove themselves to he possessed of knowand skill of real market value in the struggle for ex ence.

THE DENTAL JINGOES.

WE have received on several occasions, and especially during the last month, copies of a circular sent hy the British Dental Association to persons who had registered under the Dentists Act as having bona fide practised dentistry in conjunction with pharmacy, hut whose names are not on the register of chemists and druggists. The cases that have come hefore us have not all been representative ones, but we suppose that a good many persons who registered under those circumstances have surrendered to this bit of hlank cartridge. Each person so addressed must use his own discretion in the matter, and we have no wish to introduce our mere opinion into the matter. Nevertheless we would urge our readers who are threatened in this way to make themselves clear about the facts before they allow themselves to be frightened by such a circular. The British Dental Association has no executive power at all, and it seems to us that they are using rather questionable means to ohtain a number of resignations. The words of the Act of Parliament are most explicit. They permitted any person to register who could truthfully declare that he had been "at the passing of the Act bona fide engaged in the practice of dentistry or dental surgery in conjunction with pharmacy." A person practising dentistry and pharmacy might, or might not, he infringing the Pharmacy Act: that is not the question at issue; but he certainly could not be an offender against the Dentists Act by merely stating the hare fact as it existed. The Association has got a counsel's opinion to the contrary effect, but that is not a judicial opinion, and it is so opposed to the plain reading of the statute, that we doubt if they will even get a majority of the Medical Council to come to their view. They make their circular a little more effective than it otherwise would have been hy advising their correspondents that unless they consent to the immediate erasure of their names, they, and those who countersigned the application, are liable to be proceeded against under the 35th section of the Dentists Act, which holds out a prospect of twelve months' imprisonment. This threat is the objectionable part of the circular. Of course anybody is liable to be proceeded against, but it is too monstrous to talk of punishing chemists' assistants hecause the dentists did not know how to draw up an Act of Parliament. The erasure of a name from the Dentists' Register is within the province of the Medical Council, and the person whose name is s) erased has no remedy hut from "a court of competent jurisdiction." But imprisonment for false or fraudulent declaration is not under the control of the Dental Association nor of the Medical Council, and it is too ridiculous to suppose that the most tyrannical of our judges would send a man to prison on such a legal quibhle as has heen raised by the Dental Association.

SELLING DIPLOMAS.

THE Ambassador of the United States to the Berlin Court has sent home particulars which have come before him of the recent sale of Philadelphia degrees. His letter and its contents have heen sent round to the American press by the Bureau of Education, and the Commissioner in sending the letter forward says, "the institution named in Mr. White's letter is not the only one of the kind known here."

The particular one just now made famous is "the American University at Philadelphia," run by John Buchanan, M.D., whose diploma-mill has already become pretty extensively known, and some of whose customers probably reside within the United Kingdom. Two Germans had hought degrees from this man; one he had made a doctor of medicine, the other a doctor of dental surgery. In the first case the man himself, in the other instance the authorities, had asked the Ambassador's opinion as to the soundness of the diploma, and inquiry had led him to the belief that the whole concern was a swindle.

He sends home a copy of one of these diplomas, which was "engrossed on parchment in very handsome style," and was couched in regular Oxonian Latin, pompously declaring that the University was empowered by the Republic to distinguish with academic titles such men as the faculty should deem worthy of the honour in theology, laws, liberal arts, and medicine. The diploma is signed by eight M.D.'s and others, is certified by Philip A. Cregar, Notary Public, and Mr. Cregar's certificate is counter-certified by William B. Mann, Prothonotary of the Courts of Common Pleas, of Philadelphia.

Mr. White (the American Ambassador), in his letter accompanying these documents, tells how in a successful play now running at Berlin, and also in a recent popular novel, the authors have been making sarcastic references to American "bought" degrees. Without wasting much sympathy with America in this matter, we may be permitted to doubt whether the sneer comes with an altogether good grace from Germany, which not so very long ago was reported to be almost as swarthy in the matter of selling diplomas as its present rival.

Since the above was written a telegram from the Philadelphia Correspondent of the Times, dated June 10, announces that Dr. Buchanan's game has been checked, at least for the present. It appears that the editor of a Philadelphia journal, the Public Record, has within the past few weeks purchased eight medical diplomas from the American University of Philadelphia, the Eclectic Medical College of Pennsylvania, and the Livingstone University. This work was done in connection with the Government authorities. Everything being ready, Dr. Buchanan, with three others of his faculty, were arrested on Wednesday and charged with using the mails for improper purposes, also The papers captured in Buchanan's office showed a sale of 3,000 spurious diplomas, while there was a large quantity on hand. Buchanan's trade was chiefly with Germany, but some diplomas were sent to England. His prices varied from \$65 to \$110 each. Nearly all the diplomas issued were ante-dated. Buchanan's colleges are legally incorporated by the Pennsylvania Legislature, but this exposure will be made the basis of forfeiting the charters.

PRELIMINARY TRAINING.

DR. RICHARDSON takes a great interest in pharmacy, and he is one of the very few members of the medical profession who know anything at all about it. He has an intelligent appreciation of the difficulties and of the varieties of necessities in the trade. He it was who suggested some years ago that the counter-practice difficulty might be got over by a modified licence to practise medicine, giving a sort of half qualification. Some similar idea, we suppose, is included in the suggestion which he put forward in his speech at the Pharmacy dinner last month. He said, "I could hope that by a friendly amalgamation of your body with the last of the great and useful medical organisations which co-ordinates most nearly with yours, you could before very long enter our pale altogether, become, like us, professional in the strictest sense of the word, and obtain, each one of you, the direct opportunity of rising to the highest attainable position in a united and common profession." The idea will be recognised by most pharmacists as identical with that suggested by the President of the British Pharmaceutical Conference in his inaugural address at Sheffield last August. He desired

"that every student of medicine, whatever department the art he may be aiming for as the sphere of his ultima work, be brought at some period of his training through or single portal." Whether a common curriculum for tl students of the two professions would be practicable to at extent we are not prepared to say, but that the prelimina examination might be made subservient to both profession is very obvious. But any student who desires to do so h at present the opportunity of passing through the o portal, from which he may pass to any section the pharmaceutical or medical profession, or, indeed, any other department of professional life. Let him pass the matriculation examination of the University of London For that he must have fair abilities, a good groundwork general education, and a special preparation. The examination passed, the whole field of cultured life lie before him. He will not have acquired such an amount classical learning as to make of him necessarily a pedant a bookworm; but if he go no further he will at all events fairly fitted to take his place in educated society. He wi be no worse fitted for commercial life, if such should be h destiny, and he will be in a very advantageous position: regards medical, scientific, or literary pursuits, if he shou desire to adopt any of these. As the future chemist ar druggist must pass a preliminary examination of some sor we offer this hint to those parents who are desirous of assurir for their sons a successful career, and who can afford the somewhat more extended education which will be necessar

THE FUTURE OF THE TRADE.

WE should very much like to prophesy smooth things the future of pharmacy if we could do so with any reason able degree of faith in our own inspiration. We are out favour with many of our friends because we do not mon after month complain of the unjust competition of cuttir grocers, stationers, and stores, and bewail the profits while were once associated with the trade of a chemist at druggist. Now, in the first place, as this journal is not reby the opponents of chemists and druggists, we shou never make them dance to our piping, piped we never wisely. And, further, if pharmacists are only capable the exertion of condoling with each other on their miseric they will descrive the annihilation which will assuredly that case overtake them. We have heard of the man w waited to cross a river until the stream should have run l Equally intelligent are those who are waiting for t present stream of competition to flow away. That street must be battled with. The chemist, so far as he is a trad man, must not expect any special public favour men because he is a chemist. When the chance of what once considered only fair profits is gone, he m put up with smaller profits, and make up If the patent-me balance on something else. cine trade is broken up, a shrewd chemist can eas meet that trouble by putting forward with confide though with judgment, preparations of his own. M chemists can strike out a specialty in some line, accord to the needs of their localities, agricultural, manufacturi or fashionable. One of our correspondents last mor pointed out how apparently lost was the example wh the Rochdale chemists set their fellow-traders some ti back in persuading the medical practitioners of their trict to discuss with them the subject of dispensing. chemists then were not quite successful, but there probably thousands of medical men round the country really wish to give up their dispensing, and who will do when they can confidently feel that it can be done to the own and to their patients' advantage, and not for

t of the chemist chiefly. At least the discussion be kept going, and sooner or later it will have its if the chemists meet the doctors' difficulties More than all, the forthcoming pharmare. must fit themselves to take a higher place than predecessors occupy, for in the future it will only th skilled labourers that chemists will be required be . Chemistry is fast ceasing to be an occult science, at an those who intend to live by it must be in adof their contemporaries. As a matter of simple bu ss, therefore, young pharmacists must make up their mi to study: not merely to learn enough to pass them the h their examinations, but enough to fit themselves to d their own in the every-day competition to which th will have to submit.

PHARMACEUTICAL SOCIETY OF NEW ZEALAND.

W lave received from the secretary of this Society as function report of progress. A start towards forming a receiber has been made, and the Society is looking our rooms and offices in Wellington. The proposed hacy Act which the Society desires to have passed has be it is understood, taken up by the Colonial Government and is to be brought forward in the next session of Pament. It is desired to form a General Council to a the affairs of pharmacy in the colony, having headers at Wellington, but with branch councils at Aucklai Christchurch, and Dunedin.

eral important questions, it is added, will have ult tely to be dealt with by the General Council, and no more so than "how to supply New Zealand with eff it pharmacists from the ranks of the youth of the co."." So far as the legal profession is concerned this has all y been successfully accomplished, by the simple means of rough apprenticeships, severe individual study, and g an examination before a competent judge; this with sor modification may probably be found a satisfactory sol in of the problem as regards pharmacy in the colony.

DRUG MARKET TRICKS.

Oi culterated drugs there are at least two classes, the one sed of those whose impurities are present from mere acc int, occurring during the process of collection, which is or might not have been pure had greater care been been ved upon their selection or preparation, while the other is described as drugs wilfully adulterated. No one than the conscientious druggist remembers that when the od and Drug Bill was first enacted he was liable to be ed upon to account for impurities in such drugs as sea long, the presence of which was absolutely beyond his outrol. The amended Act has now freed him from the sk of having his good name jeopardised by such prosecution and as a rule he has only himself to blame if he traffics in ulterated drugs.

I hing has done so much to eradicate the odious trading in literated drugs and preparations as the education of the larmacist himself. He is far less dependent than he use to be on the character of the wholesale house from who he obtains his supplies. Those who now buy inferior safe, for instance, take the responsibility of its adherent im; ity of earbonate of barytes into their own hands, and if h will buy sweet spirit of nitre and nater, they court be brought face to face with the magistrate, and they deve to be left there unaided. But the higher qualificate of the retail pharmacist compels the wholesale dr ist in turn to watch closely the goods offered to him

for sale. He is not often deceived, but sometimes a uew trick is introduced and the rogues get the better of him.

Not long since we heard of a fraud which deceived the practised eye of an experienced buyer. It consisted in the "salting" of a cask of crystalline cream of tartar with spar. Such roguery, however, was short lived when once exposed, for all are now on the alert.

Recently our attention has been called to an almost parallel case in a drug professedly sold as imported. Some Jamaica sarsaparilla, apparently of the first quality, was made up in hanks, about 50 of which were tied together to make a bale. These were offered at several successive drug auctions. In the sample-rooms only the outside of the bundles was exposed, and so cleverly were these bundles packed, that the trick escaped unnoticed, and it was not until the drug was received into the warehouses of the various buyers that the fraud was detected.

The imposition consisted chiefly in taking a very inferior kind of root known as Mexican, and elegantly winding upon it, and chiefly upon that side intended for exposure for inspection, true Jamaica sarsaparilla.

We imagine that in future it will be anything but easy to successfully repeat such a deception.

The simple remedy we should prescribe for stamping out adulterated drugs and chemicals would be a combination of the importer, the wharfinger, the broker, and the drug buyer, each and all pledging themselves not to trade in false drugs or chemicals. Such a system would be much better, and more effective than the appointment of an inspector of drugs (as is the case in some countries) to examine all such goods when of direct import.

ON PRESERVING AND STORING OF OLIVE AND OTHER OILS.

THERE are few things which cost the anxious pharmacist more thought and trouble than his stock of oils. It is not so much the time to buy or the market to buy in we refer to, important though these points are, as the keeping and storing of the oils after they have been received into stock. Particularly is this the case with the fatty oils, such as cod liver, olive, castor, and almond. It is necessary for the more delicate purposes for which these oils are commonly required, that they be kept constantly bright and sweet; but this, we need scarcely say, is exceedingly difficult where there are so many agencies continually at work to change their uature and lower their quality. Of the oils just mentioned the almond and castor are the least susceptible to external influences, a fact brought out most strikingly in the treatment which they are made to undergo to fit them for the market. Both of these oils, for example, arc more or less bleached by exposure to the sun, and this process of bleaching the oils, as is well known, is continued for days, and is generally conducted in Winchester bottles loosely capped. Now a few hours of this treatment would ruin the finest olive or cod oil. Some time ago we conducted a series of experiments for the purpose of determining the changes which took place in olive oil under various conditions, and we then found that a few hours' exposure to a summer's sun of the oils in bottles hermetically sealed was sufficient to produce serious changes in their uature and constitution. changes were not at first perceptible either to taste or external appearance, but they rapidly passed into a second stage, in which the oils dimmed in brightness, and to the taste assumed a distinct nip or bite, instead of the sweet, nutty flavour distinctive of the fresh oil. The same, or at least a very similar bite, is rapidly produced in the cod oil under like conditious, and in both oils the change is much more

rapid, quickly passing into decomposition if they are exposed in open or loosely-covered vessels. It is, therefore, nothing short of ruin to these oils to place them, as is frequently done for show and purposes of sale, in windows or other exposed positions.

We have said that the almond and castor oils are not so susceptible to change, but while saying this we have also reason for asserting that, in the case of the almond oil at least, the bleaching cannot be carried to any extent, most assuredly not to the extent to which it is frequently done, without serious detriment to the oil. We have again and again had reason to observe the marked difference in the soothing properties of a cold cream made from the fresh almond oil, and that made from a pale oil; and this, too, where there was nothing very objectionable either in the taste or smell of the latter. Lister's Boric ointment is another preparation which strikingly brings out the difference between the two oils. We are not aware that notice has ever been taken of the proneness of this ointment to get rancid, even when a fresh and good oil has been employed. But where a pale oil has been used, it will not keep good for many days -we had almost said hours. It is probably not unimportant that attention should be directed to this, seeing that almond oil has come so much into favour lately in the making

Perhaps next to heat and light, the most prolific source of evil to the oils is extreme cold. Not that cold in itself is anything but favourable to the preserving of the oils, but it causes all of them (with the exception of almond, which only thickens under extreme degrees of cold) to thicken and deposit. In dealing with this margarine deposit, two mistakes are very often committed, viz., that of decanting the supernatant clear oil, which can only result in very decided loss to the retailer, or that of heating the oil considerably above the normal temperature to take up the deposit, which can only result in deterioration of the quality. It is not always practicable to keep the oils in an uniform temperature, especially in a climate such as ours, where we are often suddenly exposed to extreme changes, but some arrangement may generally be effected. Where other plans fail we have frequently recommended, and always with approval, the bottling of the oils in sizes suitable either for sale or general consumption, and in quantities sufficient to last the winter, and then wrapping them in several folds of waste paper, of which there is generally plenty lying about. Paper has a wonderful protective power against extremes both of heat and cold, and a similar reason probably accounts for what many consider the uniform superiority of the olive oil contained in straw-covered flasks. The straw not only protects from extremes in temperature, but it also protects from the decomposing action of the light.

There is another advantage still in having the oils bottled at the beginning of winter, viz., that in the event of their depositing each bottle will contain a proper and uniform proportion of margarine, which can at once be seen and properly dealt with. When oils are stored in tins or casks, it not unfrequently happens that a considerable portion of oil is drawn off before the deposit is noticed. We recently had our attention called to a Winchester quart of such deposit filtered off from a tin of cod liver oil. In this case there was not the least suspicion of the oil having deposited until the tin was more than half emptied, when it was too late to remedy the evil, and the consequence was a loss of nearly 100 oz. on the tin. Two things may be kept in mind in dealing with an oil which has thickened, viz., first, that the deposit from a certain quantity of oil (where not filtered out) should be taken up again by the same quantity of oil; and, second, that it can afterwards only be kept clear at a

temperature several degrees above that at which it original thickened. In other words, the deposit from four gallons oil will not be taken up by two; and where it origina deposited, say, at 32°, it will ever afterwards deposit at temperature somewhere between 35° and 40°.

Another point on which too much stress cannot be put the absolute purity of all vessels into which oils are to put. Owing to the difficulty of cleansing them thorough as well as to the amount of surface which they present atmospheric action on drawing off the oils, we think cas and tanks particularly objectionable. Not less objectic able, however, are bottles, be they ever so clean, should the contain any trace of moisture. The store-room, likewi should be dry and airy, not exposed, as already shown, to t much light nor to extremes of temperature.



Literary Hotes.

The Spirit of Nature. A Series of Interpretative Essays the History of Matter from the Atom to the Flow By Henry Bellyse Baildon, B.A., Member of the Phamaceutical Society. London: J. & A. Churchill.

We naturally read with an especial interest the publish works of any of our personal acquaintances; and m associated in any life work will experience to some exte a similar feeling. The author of the book before us do not now for the first time print his name on a title-pag He has already published two volumes of poems and tragic drama, and from extracts from reviews printed the end of this new volume we gather that these ha obtained the approval of skilful judges. The Graphic, instance, has declared that certain of the poems "2 worthy of Browning at his best;" "their tremulous beau delicate fancies, and wealth of language recall" to the Literary World" the poetry of Shelley;" in the opinion the Edinburgh Daily Review one poem "fairly rivals to most pathetic pieces of the elder Hood;" according to the Edinburgh Courant Mr. Baildon "belongs to the Word worthian school;" while the Dundee Advertiser halfs tragic drama "as a return to a better and more Shal sperian style of writing dramatic poetry than has prevail for some time."

In "The Spirit of Nature" Mr. Baildon for the mome abandons the rôle of poet, and assumes those of chemi botanist, philosopher, logician, and theologian. Tynda Belfast oration, with its materialistic tail, seems to ha started the author on his present train of thought; and the book before us he aims to prove that the doctrine evolution may be accepted by the scientific mind without the least preventing, but, on the contrary, strengtheni faith in a personal Creator. We have the disadvantage (a reviewer) of being thoroughly in accord with Baildon's doctrine, and, therefore, the only criticism we pass on his argument is that it is not very novel. Paley every theistic writer since has used the argument of evide design in the works of creation, and Mr. Baildon to a gr extent follows the same line. But there is much freshn in his presentation of the argument: the poetic aspects science are lovingly sketched, and his chapters cont frequent passages of eloquent language clothing wor thoughts. We are sorry that we must limit ourselves one quotation, but we will choose one which fairly indica the character of the work. He thus closes one of chapters on "Botany," in which he has shown the endl resources of Nature's processes :-

Certain is it that the student of Nature, whether he seek truth or purbeauty, reed never weep the tears of an Alexander for new worlds to quer. If he do, they will be, like those of the Macedorian, tears also ignorance. The only limits we have yet discovered are the limits of

aculties. An improved telescope apprises us of a score of unknown ns; a higher power obtained in the microscope may multiply by ands the population of a drop. Nor is the increase in mere quantity ımber. Beauty behind beauty, and wonder behind wonder greet us advance. Nature is no piece of veneerel and varnished elegance. through the centre, the graining is constant and undegenerate. No ing is there in her workshop; the smallest pollen-dust is bedightlelicate coatings, the most minute of diatoms has its tiny dise graven fair design. To me it is a mystery how any man can come from a aplation of Nature with the weary soul and the dreary creed of an t. Man may find, indeed, much that humiliates him, bidding him re that he is not the cynosure of the universe, seeing that the existen of the meanest creature seems fenced with like care to his own, ca g him to speculate that as there are unfathomed deeps of being h him, so there may be heights as immcasurable above, and yet let g him a conviction of his own possible dignity and worth, a creature ose production past zons have laboured, the crown of the visible on, and a confidence that the pervading Power that has indued the st atom with indestructible existence, quickened dead matter with onder of vitality, and exalted it into the very home of feeling and of thought, cannot be such as to be careless of the souls of His ch en, callous to the destiny of man.

ile we cordially admit the pleasure which a perusal of M Baildon's book has given us, we could not read it withrequently feeling that it might have been better if the or would but have striven to check his excessive facility pression. At times charmingly concise, Mr. Baildon now and then drops into a style of tiresome verbosity. ecorates each link of his argument so abundantly that hain is almost hidden. Then every idea has its limitaexpansions, variations, and parenthetic sub-ideas. Synyms are used in such profusion as to defeat their object and darken counsel with words. We take page nehance, and find in association the following:—"Uness and diversity," "organisation and vitality," "wond nd mystery," lowest and meanest," aggressive and et aering," "attaches and secures," "foreign and extermit "cold and inexpressive," "instinctive repugnance and re d dislike." Of course different shades of meanings are by conveyed, but the charm of direct diction is lost. It buld be added that some of the essays here printed h: already been published among the papers read before tl North British Branch of the Pharmaceutical Society.

N re's Hygiene. A Series of Essays on Popular Scientific subjects, with special reference to the Chemistry and Iygiene of the Eucalyptus and the Pine. By C. T. Kingzett, F.C.S. London: Baillière, Tindal & Cox.

central point of popular chemical science, so far as M Kingzett's new work presents it, is undoubtedly the very of Sanitas. Just fresh from its perusal, we are r the impression that Priestley, Lavoisier, Cavendish, chönbein existed in order to prepare the preliminaries his great event; that eucalyptus and pine forests have formed round about the earth's surface so as to provide ecessary materials for the manufacture of sanitas; and beefsteaks were specially created in order that they t be preserved from putrefaction by sanitas. zett has found an educated public craving for popular tific information, and he feeds that craving with the of sanitas. The public, we believe, in this gentleman's on, have a distinct purpose in living, and that is to use sanitas. The book would be excellent as an rated handbill, but it has too shoppy a flavour to vits multiplications. ju y its publication as a scientific treatise. We shall be us, however, to learn the result of this system of m ng the public themselves pay for the advertisements w h they read.

Priples of Agriculture. By Albert Carey.
Thomas Murby. Pp. 196. (2s.) London:

ALL text-book, intended especially as a course of preps ion for the examinations of the Science and Art Departon this subject. It is framed on the syllabus issued b) e Depar ment, and treats of soils, crops, manuring, dr age, live stock, feeding, irrigation, and farm buildings. a good introduction to the study of agricultural chemand t'e information it conveys is likely to be of sero the dwellers in towns, who are often wofully ignorant e science which is at the base of the methods by which

their bread and meat are provided for them. The author is a medalist and holder of first class honours certificates from the Science and Art Department, and head-master of the North Tawton Board Schools. His work, while sticking closely to the matter in hand, is written in a sufficiently free style to make it readable for one who is not trying to pass an examination in the subject treated.

How to Feed an Infant. By George Benson Baker, M.D. London: Baillière, Tindall & Cox. 8vo. pp. 4 and 95.

As the author says, it is unusual to find "anyone that knows anything about an infant until parental responsibilities have been incurred. . . . The mother's education in her new duties is often a series of experiments on her infant, suggested by those who probably know as little about infant dietetics as herself." "Feeding an infant means much more than simply putting food into its mouth." Two important factors are perfect cleanliness of the skin and abundance of light and fresh air, which aid digestion in more ways than one.

The mother's milk of course takes the first place in infant feeding. In the rare cases when suckling is injurious to the mother, the author recommends Swiss condensed milk, properly diluted, as the best substitute. Only good milk can be used for condensing. It is never half-churned, like country milk, on its journey to town, and is therefore less alterable, and, finally, it can always be obtained in good condition. Starchy foods, which include all advertised infant foods, cannot be digested by babies, and children fed

on them are slowly starved.

"Pip" in "Great Expectations" was brought up by hand. What he must have suffered we can gather from the author's graphic description of hand-feeding. "When food is given by the spoon the child is generally laid upon its back, and the contents of the spoon rapidly pushed into its mouth as fast as it can swallow. The child has no option but to take it as quickly and in such quantities as the ignorance or knowledge of the nurse may dictate." By the use of the feeding bottle this is to a great extent obviated. The child is not obliged to swallow more than it likes, simply because it has to work for it.

The history of the feeding-bottle is still unwritten. A quarter of a century ago it was a novelty in England. In Iceland and Lapland, at least, it seems to have been long used in a rudimentary form. In 1809, when Sir William Jackson Hooper visited Iceland, he found that the mortality among infants was terrible, which he ascribed to the custom which prevailed among the women of not suckling their children at all, or at most only for a few days, after which they fed them with cow's milk, which was taken through a quill with a piece of rag fastened to one end for sake of softness to the mouth. (Tour in Iceland, 2nd ed., 1809, vol. i., p. xcviii.) When Linnæus was in Lycksele, Lapland, he says, "I remarked that all the women hereabouts fed their infants by means of a horn, nor do they take the trouble of boiling the milk which they administer, so that no wonder the children have worms. I could not help being astonished that these peasants did not suckle their children." (Lachesis Lapponica, vol. i, p. 178.) Now the feeding-bottle is widely distributed. The "Consul's Daughter" (see her admirable book, "The Peoples of Turkey,") was once present at a party of Bulgarian ladies where wine was handed round to the guests in a feeding-bottle. But C. W. Quin, in his interesting letter from Constantinople (CHEMIST AND DRUGGIST, June 15, 1872, p. 185), tells us of a Turkish mother whom he saw feeding her baby from a 6d. Maw's feeding bottle, and the inquiry if the said substitute for Nature's fount was as great a blessing to Anatolian anas as to Middlesex mothers, was answered by a flood of melodious Turkish, bestowing glowing culogiums on the Feringhees' Marifet or Frankish fakement.

Dr. Baker rightly condemns the administration of drugs to children, whether they be sedatives or purgatives. No medicine should be given unless specially prescribed. The prevalent custom of giving some "simple remedy," and, if the child grows worse, then to ask advice, is both wrong and Doctors should be asked to preserve health rather than to cure diseases that might have been prevented.

There is a fine scene in "Vanity Fair" (chapter 38), where Amelia finds Mrs. Sedley in the act of surreptitiously administering Daffy's Elixir to the infant Georgy. Would that every mother would resolve, like Amelia, that her child "shall not have any medicine but that which Mr. Pestler sends for him"! The notes on the commoner diseases of childhood in the appendix will certainly give mothers more intelligent ideas than most of them now have, and are not likely to increase miscellaneous dosing.

MR. STEDMAN, of Hoxton, has prepared, and is now widely circulating, a pamphlet entitled "The Nursery Doctor." The treatment of many of the complaints to which children are especially liable is briefly indicated, and as the author has had a special medical experience in this branch of practice his hints may be expected to be trustworthy. Of course his own specialties occupy the chief place in his pharmacopecia, but other prescriptions are also given.

MESSRS. KELLY & Co. have lately published a fourth edition of their now established "Directory of Chemists and Druggists." It is as complete and as reliable as the editions of former years, and has been corrected by personal visits or by letters. Besides chemists and druggists, the various wholesale dealers and manufacturers supplying the trade are given in classified order, and in this edition lists of hospitals and dispensaries have been added. In the London section the great blemish is the constant repetition, under all sorts of headings, of the name and trade-mark of Messrs. Neustadt & Co. There are a few other indications of concessions to advertisers which are calculated to check the faith which we ought to place in a directory, but on the whole the work is a useful guide, and certainly is not a mere reproduction of other lists of names or former editions.

Freesponsible Chatter.

Dr. Richardson's speech at the Pharmaceutical dinner was undoubtedly the oratorical feature of the evening. The captain of the same name had already, in a neat little address duly flavoured with sulphurous fumes, shown what the family was capable of. Professor Roscoe, in a somewhat imposing manner, gave the impression that he was clearing the way for some announcements of an important character, but sat down before he got to them; Mr. Gant placed his hand in his shirt bosom like the pictures of William Pitt, but the resemblance closed with the attitude; Mr. Schacht had prepared some pretty ideas, but he did not take time to elegantly frame them: Mr. Sandford showed his Red Republicanism a little too strongly by finding nothing better to say of the Heir Apparent than that he had proved himself a good sportsman; but Dr. Richardson hit the mark perfectly. Flattery was skilfully mixed with mild rebukenot rebuke of those of us who were present, but of those absent villains who traffic in the ills that flesh is heir to. His speech was just the right length, and it included, worked in with consummate skill, an elaborate advertisement of "peroxide of hydrogen, nitrite of amyl, the hydrides, the colloids, methylene bichloride, sodium ethylate, and methylal," introduced into medical practice by the speaker, and to be obtained in a state of the most perfect purity from Messrs. Robbins & Co., 372 Oxford Street.

Some cynical gentlemen at the dinner declared that Dr. Richardson, teetotal enthusiast as he is, was enjoying his glass of champagne as well as the rest of the guests. He certainly had a champagne bottle by his side; he poured from it into a champagne glass, and drank the pouree. But the liquid was Zoedone, and the exhilaration it produced was phosphoric and not alcoholic. Zoedont preach one thing and practice another, after all; but neither does he take much pains to avoid the appearance of evil.

It is not so long since that conversazioni were added to the tortures of modern social life. Most middle-aged persons will recall the fear and trembling which accompanied their

pronunciation of the luxurious-looking word. But they ha surely existed among us long enough. Either somethin should be done to furbish up their well-worn attractions, they might with general approval be requested, as the French say of British pickpockets, to leave the land who hospitality they have abused. The theory that they we calculated to promote social intercourse is as shattered the rose of last century. Your conversational gifts may brilliant at a dinner-table and sparkling in the drawin room, but at a conversazione you are necessarily reduced inane twaddle. You do not care much, you say, for affair yourself, but you go to please your wife, or your suffair, or your sweetheart. Surely, sir, you have no made a study of the feminine mind. One who had wrote

Some men to business, some to pleasure take, But every woman is at heart a rake;

and millions have agreed with that dictum since. I conversazione is a very early station on the highway of t "Rake's Progress," and though the lady will protest the has enjoyed herself, you may be assured that it v your charming society only which made the even tolerable to her.

The Pharmaceutical Society has pared down the expe of a conversazione to about its lowest limit, but et they spend on that one dismal evening nearly as much they pay throughout the whole year for vindicati the Pharmacy Act, legal consultations, and defending unprosecutions of their members! But their share of expense is only a trifle compared to what their visitors h to spend. Even in the building where they are supposed be guests the latter must make the best bargain they with some unknown and irresponsible being about stor their hats and umbrellas. Broughams, cabs, gloves, tips run up the average expense to about half-a-sovere each person, and at a moderate estimate the conversazi of last month, which was only meagrely attended, m have cost in all over 1,000%. The amusements offe for the money were dodging a thousand visitors as gloo as yourself, a violent brass band at the back of your he and a few vocalists in a suffocating concert-room shout tra-la-la in various discords. There has never been slightest attempt to introduce any new feature into th so-called entertainments, and unless someone can think novelty for next year we shall most decidedly hope to an end put to the repetition of such a costly, wearis struggle as this to "elevate the status of the trade."

* *

A law protecting the apothecary from unholy competi prevails in Germany, but it has its drawbacks, as the lowing incident, reported in the Gerichtszeitung, of Bres and the Bunzlauer Pharmaceutische Zeitung, witnesse Apothecary-assistant B was comfortably fixed in bed, v the night-bell roused him from his slumbers. he found a maid-servant, who asked in timid tones 5 pfennigs worth of Borsdorf apple-juice." B asked interpellatrix for whose behoof this unwonted remedy required, and received the reply that a certain mid needed it. Having dispensed the drug and received halfpenny, he asked the maid to tell the midwife "tha was an etcetera." Not long had he enjoyed his second s when again the bell resounded, and there in the porch wa timid maiden asking for a penn'orth of cinnamon lozer Again he served her, and she departed. But his trowere only beginning. While he courted sleep for the time, she reported to her master that the assistant had her waiting a very long time, and, consequently, before the night-bell clanged a third time, and this time master himsel. appeared, and curtly threatened the assi that he would make a report to the police. Even Teu temper stirs at last, and the assistant responded as co This was not prudent, for the visitor went direct t police station, and denounced the apothecary's delay. result was that B received an official document refe him to the law "of October 11, 1801, tit. iii. sec. 2 ff," demanding payment of a fine of 15s. B protested paid. It is not quite certain, however, that he was ri fined, for the law cited refers only to prescriptions and to retail dealing, and does not say how long the apoth y may delay before answering the night-bell. It is

ested that the master, who did not want any physic at night be punished "as a disturber."

a chemist's shop just opened in the North of London ared a placard announcing that the proprietor was red to distribute gratis in the first month 10,000 sooth-powders for children cutting teeth. A gay young elor, who went in on the Saturday uight for a penny-h of bear's grease, was presented with one of these lers. He tried to "swop" it for a bottle of lavender-r, but failed. He thought the perfume would have of more immediate interest, but he and his young an have agreed that perhaps the soothing powder may nately prove the most valuable.

st month we were favoured with a back-seat ticket for mateur dramatic performance in aid of the London copathic Hospital at St. George's Hall. The proceedwere under the patronage, the immediate patronage, it leclared, of three Royal Highuesses, one Serene Hightwo dukes, two duchesses, four earls, three countesses, lords, two ladies, and ourselves. The performers were Thal Ian" Amateur Company (accented on the "I"), ney produced Boucicault's play of "London Assurance." royalties, serenities, graces, and nobilities did not r in any great force themselves: sent their servants bly. The Thalians performed exceedingly well. So so that the audience enjoyed the play almost as much ors did themselves; which is saying a great deal. ig the evening Mr. Chambre, representing the Thalians, on the stage and announced that after paying expenses the were able to pay over to the funds of the hospital 100 as, and amid loud applause he handed a cheque for that nt to the honorary treasurer of the hospital, Captain Ve han Morgan, who was sitting in face of him.

Jonathan Hawes, whose pamphlet on "Civil Servants' Ing" we lately mentioned in this column, sends us a coof a second edition of the said pamphlet, with "perm on to condemn or otherwise." We are disposed to "crwise." We are most heartily with Mr. Hawes in his to obtain a Parliamentary inquiry into the system of renerating our State employes. We should be delighted to tumbrils go past this office, each containing a dozen em, every morning. What we object to in Mr. Hawes' halt is the somewhat piteous tone of the appeal to "the ty, aristocracy, and State clergy" of England. By all ms let tradesmen show their teeth and bark, and bite, to ineed be, but they must make up their minds in the full to stand boldly on their rights, and not need any proving up from "nobility, aristocracy, or State clergy," on from the THRONE, which Mr. Hawes thinks it sary to mention with the profound awe of large calls.

suggestion made by one of our correspondents, that the men should make themselves rulers of at least one of the owerful daily journals, is a practical one. The interests of desmen are, as a rule, shamefully ignored both in the of Commons and in the press. Mr. Gladstone, we are to n making his Budget speech the other night had to tur coasionally with a sweet smile to Mr. Bass to deprecate the rial anger. He had to kneel to the landlords and bow farmers with all the graces of a courtier. But when it can be paying for all these experiments, and schedule D was elected for the patriotic service as usual, who was there repenting the smaller tradesmen, who most feel the pinch, on Mr. Gladstone needed to smile?

Samuel Webb, of 434 Oxford Street, who has taken an act part among grocers in reference to the carrying on of ret stores by Crown servants, states in the *Grocer* last we that when the Parliamentary Committee on the subject was yout to meet just before the dissolution he sent out 3,0 circulars, asking tradesmen to attend, so as to make a q to but effective demonstration in the House of Commons Conittee Room. "Well," he says, "what was the result to trouble? I regret to say that not more than the few—not twenty—were present."

The same gentleman also publishes a correspondence between himself and Sir Charles Russell, the Chairman of the Parliamentary Committee, from which it appears that 9 out of the 18 members of the old Committee lost their seats at the recent election, and that when these places are filled up the new Committee will go on at the point where the old one left off.

Mrs. Partington says she don't believe in any of the quack rostrums; she considers them regimental to the human cistern. She knew one man severely injured in his diagram, and another whose elementary canal was disordered by their use. She says she trusts chiefly to high jinks and dirt, though she finds it useful to take an occasional dose of Piratic Selina.

If ever a man deserved his name it is Mr. D. M. Lamb, of New York. He has invented a process which applied to silks, velvets, ostrich feathers, furs, carpets, gloves, or what not, will protect them from all the various injuries to which they are subject. The rains or the floods may come, coffee or claret may be poured on the fawn-coloured silk, its wearer, if of a literary turn may wipe her inky fingers on her skirts, but no stain will result. The process consists in the application of some preparation of rubber dissolved in naphtha, but it is not the ordinary method of water-proofing as it does not fill up the pores and meshes of fabrics, but impregnates the fibre leaving the air to circulate freely between. Subsidiary recommendations are that fabrics so prepared will neither shrink, mildew, decay, nor be attacked by moths. Need we add that "a company is about to be formed to introduce this process," &c.

Shopping will be invested with new charms of excitement when Civil Service Stores supply the wants of the population entirely, as the editor of the Times thinks is their destiny. Last month a post-office clerk went to the Bedford Street Stores to match au undershirt which he took with him. Not getting what he wanted, he rolled up his pattern, and put it in his pocket, whereupon the manager of the department gave him into custody. He was tried at a police court, and proved clearly that the parcel he put in his pocket was his own property. Of course he was acquitted, but we have not heard that the over-smart manager has been executed. The post-office clerks started those stores, and it is only ordinary (that is, usual) justice that other classes should enter into the benefit of their labours, and that they themselves should be buffetted and thrown into dungeons when they veuture to present themselves as suppliants before the lordly clerks who now rule what were once their own counters.

The thinking substance of the brain has been identified by materialistic physiologists as a compound of protogen and phosphorus. But they have not yet been able themselves to mix protogen and phosphorus so as to make a doll think. This was because they did not know correctly the composition of the stuff. There is no need for any further delay, however, in the manufacture of a mind, for a German chemist has discovered that the material is simply oxaethyl-trimethylammoniumoxydhydratelylopalmethyloglycerin-phosphorsaüre.

Mr. Edison has really committed the unpardonable sin of inventing a patent medicine. He calls it "Polyform," and compounds it of chloroform, chloral, camphor, and aconite, to be used as a liniment for neuralgic pains. A vial holding about an ounce or so is sold in the United States for 6s. Mr. Edison is believed to have made all his previous inventions merely for the sake of getting a preliminary fame so that he might launch his new discovery on the universe with sufficient éclat.

By the way, it has been reported that Zeedone either has been, or will be, or might, could, would, or should have been, sold for thirty thousand pounds.

The "we" of the Lancet irresistibly reminds its readers of the frog in the tragic story related by Esop. Some time ago Dr. Edis wrote to the Times on the cruelty to which young women in drapery establishments are subject in having to keep standing through a long day and seem to be busy. "We" duly followed, of course. One or two firms wrote to the *Lancet* to announce that they did provide seats. This seems to have suggested the opportunity of showing off, and therefore "we" announced that "we" should require all such establishments to send "us" notification that they had provided or would provide seats for their assistants under pain of "our" displeasure. "We" should publish lists of the humane establishments, and medical readers would be expected to advise their patients to deal with such only. It does not seem as if this tall talk has had much effect. On May 29 the Lancet was able to announce that two firms in London and one in Edinburgh had responded to the appeal. The requirement that firms are to help swell the Lancet's importance, or to be subject to all the injury which the Lancet can do them, is a piece of presumption bordering very closely on the illegal.

The same journal has been well laughed at for its screeching self-congratulations on the appointment of the President of the Local Government Board to a seat in the Cabinet. It was more than half pretended that this had been done in direct obedience to special orders which had been published in the Lancet. It was evident that the writer had written in blissful ignorance of the fact that Mr. Gladstone's previous secretary of the Local Government Board (Mr. Stansfeld) had a seat in the Cabinet, and therefore it was quite possible that he had given Mr. Dodson the same honour as a result of his own judgment, and not as the consequence of the Lancet's dictation.

Nanhruptcies and Viquidations.

W. R. BARRITT, Manganese Merchant, 66 Coleman Street, E.C.

An adjourned meeting for the bankrupt's public examination was held before Mr. Registrar Murray on May 26. He filed a statement of affairs showing unsecured debts 2,986*l*., and no assets, the following being a list of the principal creditors:—

			£ s.	d.	
Atkins, C., Water Lane, E.C			47 10	0 0	
Brown, Janson & Co., Abchurch Lane, E.C.			61	1 3	
Davies, J., Mourt Pleasant, Barnshury			22 10		
Durant, T., 5 Guildhall Chambers, E.C			120 (
Gifford, F., I Gresham Buildings, E.C		- ::	125		
Goode, C., Barry Road, S.E.			10 13		
Greene, N., 3 Bartholomew Lane, E.C.		• • • • • • • • • • • • • • • • • • • •	475 17		
Hemming, J. L., 4 King Street, E.C.	••		265 (
TI CL 00 3f	••		200 0		
Tarlana II Dona 11 II G 121	• •	• •	200 0	-	
	• •	• •	500 0		
Jennings, Edward, Bournemouth	• •	• •			
Kennall Gunpowder Company, Penryn			50 10		
Kreamer, G. A., Southampton Street, Fitzroy	Squ	are			
Lloyd, Edward, Leadenhall Market	• •	• •	25 0		
Miles, C. R., 4 Broad Street Buildings, E.C.		• •	97 0		
Nicholls, J., 4 Great Winchester Screet, E.C.			13 15		
National Provincial Bank of England			37 0	0	
Parry, E., 18 New Bridge Street, E.C			125 0	0	
Rowe, F. A., Lorne Road, Haverstock Hill			142 9	4	
Stacpoole, R. W., Pinner's Court, E.C			43 0	0	
Stollard & Whitting, South Molton Street, W			51 7	0	
Sharp, J. C., Shafteshury Cottage, Croydon			92 10	0	
Williamson, J. W., 4 Stone Buildings, W.C.			160 0		
Wright, C. E., 4 Great Winchester Street, E.C.		•••	33 10	ő	
Trigue, C. D., I drove Willoudston Edicat, E.		• •	0,10	. 0	

The trustee stated that he had been only recently furnished with a copy of the accounts, and he required further time to examine them. He was informed by the bankrupt that he intended to make an arrangement under section 28. His Honour, with the consent of the bankrupt, granted a further adjournment to June 23.

J. E. GODDARD, Druggist, 37 Chapel Street, Belgrave Square, and Kensington.

THE debtor filed his petition for liquidation in November flast, returning his liabilities at 438*l*, against assets 547*l*, and it was resolved that his estate should be liquidated by

arrangement, Mr. E. Goddard, of West Chapel Street, Mr. fair, and Mr. E. Cogswell, of St. Thomas's Buildings, Sou wark, being appointed trustees. The case was broug before Mr. Registrar Brougham on the 3rd inst., upon the hearing of an application on behalf of Mr. E. Goddard the is co-trustee, Mr. Cogswell, should be ordered to pay as of 157L, alleged to have been received by him, into account to the credit of both trustees. After hearing affidavits and statements on both sides, the Registrar orde Mr. Cogswell to pay 103L 2s. 6d., within seven days, into joint account of the trustees at the London and Provinc Bank.

MEINERTZHAGEN & TURNER, Drug and Colonial Merchar 9 Mincing Lane.

This case was brought before the Court on May 21. debtors, trading under the firm of "Meinertzhagen, Be Co.," had filed their petition for liquidation, and Mr. Fir Knight applied for the appointment of Mr. J. Wada accountant, 11 Queen Victoria Street, as receiver manager of the estate. The application was supported an aflidavit of Mr. Meinertzhagen, who stated that liabilities of his firm amounted to 20,000L, or thereabo but he believed that not more than 5,000L would ragainst the estate. His firm had entered into various a tracts for the purchase and sale of drugs, spices, and ot commodities, and some of the contracts were unfulfil If they were carried out they would prove a source of proton to the estate, and it was, therefore, desirable for a receivand manager to be appointed. Mr. Registrar Pepys me the appointment.

PHILLIPS & COX, Chemical Agents and Merchant 17 Philpot Lane.

The debtors had presented a petition for liquidation, their affairs were brought before the Court on May 15. Naunton applied for the appointment of Mr. H. J. Pr. accountant, 10 Old Jewry Chambers, as receiver and mans of the estate, in order that the business might be carried until the first meeting. The debts were estimated at al 4,800 l., and assets 2,500 l., consisting of stock, furnit fixtures and effects, and book debts. The application supported by creditors for about 1,300 l., and Mr. Regist Pepys made the desired appointment. The following cretors, secured and unsecured, have been scheduled:—

			£	s.
Atkins, T. R., Dunster House, E.C			186	5
Caudery, W., & Co., Fenchurch Street		••		0
Cox, Henry, & Co., Buckland Street, Hoxton			293	10
Central Bank of London			296	6
Observe & The Miles of the Toront			455	0
Destan D A 62 Conservational Charact		• •	38	
T2 4 8- ()- 37				10
			18	
Franklin, F., Bankside		• •	325	
Hyslop & Symonds, Mincing Lane			81	
Holmes, W. H., & Sons, Newcastle-on-Tyne		•		
1les, B., & Co, Marshgate Lane, Stratford		• •	61	
Joyce & Co, Great St. Helens	••	• •	80	
Knight, Hill & Co., Billiter Street			261	2
Leese, R., 69 Mark Lane			85	
Lamb, Hopwood & Co., Mark Lane			13	
Middleton & Co., 4 Cullum Street			280	
Merchants and Shippers' Whartage Company			22	2
Naunton, G. W., Cheapside			25	0
Smith, Francis & Co., Newcastle-on-Tyne			408	7
Sharwood, F., & Co., Bishopsgate Street With	in .	. :	119	4
Simmons, J., New Road, Pattersea Park			32	5
Slade, Mitford & Co., Upper Thames Street			16	19
Tyne Steam-shipping Company			19	17
Voss, M. H., Bankside	: :		28	17
			30	
777 . 771 11			117	
			560	ŏ
Zurnbeck, A., & Co., Mincing Lane	• •		,,,,	*

J. E. ROBERTS, Chemist and Druggist, 2 Fernhead R Harrow Road.

The debtor has filed a liquidation petition, and Mr. S. Godfrey applied to the Court on the 3rd inst. for the pointment of Mr. W. E. Dawes, accountant, Cannon S. I. as receiver, and for an injunction restraining an approach of the liabilities were about 700L, with assets, consisting the second furniture and goodwill of the business, one imated value of 450L. Mr. Registrar Brougham gradule application.



THE WEIGHTS AND MEASURES ACT.

RAL chemists were summoned to the Southwark Police on May 19 for contravention of the Board of Trade's Co 01 of Council in respect to apothecaries' weights and ires.

a. Wilkinson, chemist and druggist, 114 Lambeth Walk, rosecuted by James Strongnell, inspector. The latter he had seized 17 weights on defendant's premises on 20. Eight of the weights were too heavy and nine ght, and were as follows:—One 2 drachm weight grain), one 2 drachm weight $(+\frac{5}{10} \text{ grain})$, one 2 drachm It $(+1\frac{1}{2} \text{ grain})$, two 2 drachm weights $(-1\frac{1}{2} \text{ grain})$, drachm weight (-1 grain), one 1 drachm weight grain), two 2 scruple weights $(-\frac{3}{10} \text{ grain})$, one ple weight (-2 grains), one 4 grain weight ($+\frac{1}{2}$ grain), 4 grain weights $(+\frac{2}{10})$ grain, one 3 grain weight grain, one 3 grain weight $(-\frac{2}{10})$ grain. fo

reply to Mr. Glaisyer, Solicitor to the Chemists and ruggists' Association, who defended, the witness said amined the avoirdupois weights upon defendant's an proses and found them all correct. The standard for ap ecaries' weights was issued last August, and not at the he Act was passed. He believed all or most of the ts seized were in use. They were in a small drawer un the scales. He thought some of them were new and ed defendant handed them to him. He did not reer whether defendant told him how recently he had har is weights examined. Witness had not published any of the standard set up for apothecaries' weights. He ed defendant or his assistant asked to be recommended e to buy fresh weights, but as a rule witness did not rec mend anyone as it would be unfair to the different 3. Witness advised defendant to get fresh weights, anc

promised to do so.
Glaisyer: Is this the first case of a chemist being bro it before the Court with respect to apothecaries' wei s?

ness: Yes, I believe it is. Glaisyer: Here or elsewhere?

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ness: Yes, I believe so. Glaisyer said he was not prepared to dispute the stal ent of the inspector, and he accepted the fact that f the weights were heavy and others light. He would nowever, in mitigation of the penalty, that defendant, as he had been able to do so, had had his weights exa led periodically. There was no charge with regard avoirdupois weights, which the inspector found per ly correct. With regard to the apothecaries' weights the undard had been set up more recently than the Act of nent, and the defendant, in common with his brother che: ts, was unaware that the standard had been started. Mor ver, the person who had examined the defendant's wei: s had not correct apotheearies' weights to examine thei y. This was the first case of the kind, and might act a warning to chemists throughout the country to have thei veights according to the standard. Four of the s, he was told, were perfectly new and had never been used and were supplied by a first class firm. Until recently ther vas no standard by which dispensing weights could perly tested, and immediately defendant knew Wha vas required he purchased new weights stamped and

mar Mews (Chairman on the Bench) said: As this is the first se which has been brought, we shall simply order the defe ant to pay a nominal fine. It is quite necessary that cher is, as well as persons in other businesses, should orrect weights. The fine is 1s. on each weight, alto her 17s.

Horatio Pass, chemist and druggist, 245 Walworth Road, Lambeth, was also fined 1s. in each case for having 12 incorrect apothecaries' weights, viz.: - One 2 drachms ($+\frac{3}{10}$ grain), two 1 drachm ($+\frac{3}{10}$ grain), one 2 scruples ($+\frac{4}{10}$ grain), one 2 scruples (-3 grains), one $\frac{1}{2}$ scruple ($+\frac{3}{10}$ grain), one 1 scruple ($+\frac{3}{10}$ grain), one 6 grains ($+\frac{3}{10}$ grain), one 5 grains ($+\frac{3}{10}$ grain), one 5 grains ($+\frac{3}{10}$ grain), one 3 grains ($+\frac{3}{10}$ grain), one 2 grains ($+\frac{2}{10}$ grain). In this case defendant pleaded that he did not know the

Act was in operation; that he had been unable to get any information on the subject. He added that there appeared to be a difficulty as to whether weights stamped in one

district would be right in another.

Magistrates' Clerk: The Act is in operation all over the country.

Defendant: But you cannot get the weights stamped in the different districts.

Messrs. Poingdestre & Truman, chemists and druggists, 187 Newington Butts; Edward Wood, chemist and druggist, Northcross Road, Crystal Palace Road; and Robert John Smith, chemist and druggist, 38 Thornton Street, Horselydown, Surrey, were also ordered to pay small fines for having incorrect apothecaries' weights.

These offences were proved by Mr. James Webb, Inspector,

and George Carr, his assistant.

Defendants all pleaded ignorance of acting illegally. Mr. Smith said some of the weights seized upon his premises had not been in use for thirty years, and that until the seizure hc was unacquainted with the new Act. Mr. Wood stated that weights seized upon his premises had been used merely for compounding, and not for retail.

In each case the weights seized were forfeited.

Personalities.

THE KHEDIVE OF EGYPT has conferred the rank of Miralaï, or Bey, on Dr. Grant, a well-known English physician in Cairo. Dr. Grant Bey conducts in Cairo an invalids' home for English visitors, and we believe he is also in the service of the Egyptian Government.

MR. GEORGE D. ROSENGARTEN, of Philadelphia, the head of the well-known firm of Rosengarten & Sons, quinine and chemical manufacturers, has retired from business at the age of 80. He has been connected with the wholesale drug trade since 1822. The business will be carried on by his sons. The Philadelphia Drug Exchange passed a series of complimentary resolutions to Mr. Rosengarten, and made him an honorary member of their association.

IT IS A FACT worth noting, says Nature, that M. Chevreul, who is now in his ninety-fifth year, has begun his course on Chemistry at the Paris Museum of Natural History with as much apparent zest and energy as he did fifty years ago when he first entered on his duties of that chair. The programme of his course, Les Mondes informs us, is beautifully and firmly written in his own hand. Notwithstanding his approach to the centenary, he still looks young and fresh.

THE FOLLOWING GENTLEMEN were elected Fellows of the Royal Society at the meeting of the Society on June 3. The list will be found to include several names of pharmaceutical eminence:—Thomas Clifford Allbutt, M.A., M.D., F.L.S.; Professor John Attfield, Ph.D., F.C.S.; Henry Francis Blanford, F.G.S.; the Rev. William Henry Dallinger; Wm. Turner Thiselton Dyer, M.A., F.L.S.; Lieut.-Colonel Henry Haversham Godwin-Austen; the Right Rev. Charles Graves, D.D., Bishop of Limerick; Professor David Edward Hughes; Henry M. Jeffery, M.A.; Professor Frederick M'Coy, F.G.S.; J. Fletcher Moulton, M.A.; Professor Charles Niven, M.A., F.R.A.S.; John Rae, LL.D.; Professor J. Emerson Reynolds, M.D.; William A. Tilden, D.Sc.

BEER. — Great Britain manufactured last year 1,545,500,000 gallons of beer. The United States only got to 336,300,000 gallons. The accounts for Germany cannot be totalled by any known mathematicians.

Trade Rotes.

IT WILL BE SEEN, from our advertisements, that Messrs. H Sugden Evans & Co., of Montreal, are open to take agencies of European proprietary goods for Canada and the United States of America.

* *

A MEDICINE CALLED TIC-SANO has been introduced for neuralgic and rheumatic pains. The proprietors assure us that its ingredients are not in the British Pharmacopoeia, and have never been used in this country before.

* *

GINGERETTE AND LEMON GINGERETTE are excellent specimens of non-alcoholic liqueurs. They may be taken as cordials, neat, or with water, plain or aërated. In the latter form they yield a delicious draught. Wine or spirits may be added if taste so dictate. These preparations are made by Mr. Wm. Whysall, pharmaceutical chemist, Grantham.

* *

Mr. Ancill, lately manager of the Chemists' Aërated Waters Association, it will be noticed by advertisement, has very promptly floated another company for the manufacture of aërated waters, under the title of "The General Mineral Waters Supply Association (Limited)." It will be seen that this company propose to allow for empties, a point which has occasioned some dispute among the members of the other association.

* *

THE LIEBIG'S EXTRACT OF MEAT CO. (LIMITED) report a profit for the year ending March 31, 1880, of 83,928*l.*28.10*d.*, which is 5,000*l.* less than last year. The slight reduction is caused by a lower value of hides and other waste products. The shareholders receive their usual 10 per cent. dividend, 20,000*l.* is carried to the reserve fund, and 6,620*l.* is carried forward.

_

WE HAVE RECEIVED a sample of Saville's Capillary Generator, prepared by Mr. John T. Saville, of 146 Regent's Park Road. No doubt the announcement of a hair-producer is one of the most ready means of tickling human vanity. Mr. Saville sends us also a parcel of letters received by him, undoubtedly original ones, which all testify to the benefits derived by the use of his preparation.

* *

WE HAVE RECEIVED a beautifully-illustrated price-list of chemical apparatus from Messrs. Elmore & Richards, of New York. A good idea gathered from the list is a set of reagent bottles with the name engraved on white enamel labels in front of the bottle (e.g., Acid Nitric), and the chemical symbol engraved in similar style (HNO₃) across a broad stopper with flat top. This enables a set to be kept in a sort of bin case, showing only the tops. We notice that the assay furnaces, muffles, clay crucibles, &c., manufactured by the Plumbago Crucible Company, of Battersea, are very prominent in these pages.

* *

THE SYDNEY EXHIBITION AWARDS.—In the list we published last month the name of J. Paul Siebe, of Dresden, was given; it should have been J. Paul Liebe.—Mr. Hickisson, we understand, has been awarded the silver prize medal for his marking ink (the daughter of the late John Bond's).—Messrs. Waterston & Sons, of London and Edinburgh, who exhibited their "Bee" brand of sealing, bottle, and pareel wax, have obtained the highest award (gold medal).—Messrs. Arnold & Sons, of Smithfield, who took a gold medal for surgical instruments, we are informed, had never ex-

hibited before.—The case of medicines shown by Mess Richardson & Co., of Leicester, and which gained for the their fourth gold medal, included a variety of their vaccompact medicine-chests for emigrants and colonists, a also their emergency case, for colonial surgeons. It may assumed that the Sydney judges were able to appreciathese.—A gold medal has been awarded to Messrs. W. Bush & Co., of Artillery Lane, London, for essential of fruit essences, and colours.

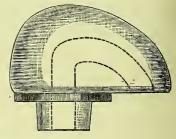
THE ANGLO-AMERICAN DRUG COMPANY (Limited) been formed to purchase from Mr. Henry Clay Gallup, 493 Oxford Street, a half-share in the articles sold him as Fragrant Floriline and the Mexican Hair-renew Mr. Gallup is to receive for the above 23,000*l*., all in fipaid-up shares of the company, and he is to be appoir managing director of the business for ten years. capital of the company is fixed at 200,000*l*. The subscrit shareholders are:—

Jesse Willows, wholesale druggist, 101 High Holborn.
Thomas Harper Francis, wholesale druggist, 101 High Holborn.
Robert Hussey, wholesale druggist, 101 High Holborn.
Henry Critchett Bartlett, consulting analytical chemist, Ph.D., F. 39 Duke Street, Grosvenor Square.
William John Clarke, advertising agent, Milton House, Rom

Essex.

Thomas Platt, advertising agent, 15 Approach Road, Victoria Par Heury Clay Gallup, Preston House, The Avenue, Upper Norwood.

One of the chief objections to the patent stopper; bottles of aërated water has been the frequent splas! iliquid flying into the face, up the sleeve and over the twhen an aërated water is highly charged. A small in



tion of Messrs. Gardner & Co., of Neath, obviates is trouble. The opener is bored through and is fitted windiarubber ring to act as a washer. Any water would otherwise spurt consequently passes through the into a glass in a reasonable manner.

MR. MATHER'S BUSINESS.—A large number of chi sts and druggists will learn with surprise that the London siness of the late Mr. William Mather will be entirely on the 26th of this month. The present Mr. Mat would seem, has preferred to confine his attention manufacture at Manchester of the specialties so long sociated with the name of his father, such as plasters, fe bottles, and fly-papers. The London and export age Mr. Mather's goods will, however, from the above d carried on by Messrs. Mace & Haldane, two gentlem who the have for many years occupied prominent positions the firm, the first as manager of the export department, : e & latter as head of the counting-house. Messrs. and Haldane have taken premises at 77 Milton Street, E. they will probably represent other manufacturers as Mr. Mather. The London premises of the firm, wh freehold, are to be sold by auction by Messrs. Tat June 28, as will be seen by an advertisement elsewhe

HE CHEMISTS' AERATED AND MINERAL WATERS ASSO-TION (LIMITED) have lately held two special meetings have to some extent reorganised their affairs. The noter of the company, and hitherto its manager, Mr. ell, has been persuaded to resign, the other directors, pelieve, regarding his methods as too extravagant. The rogate scheme seems to have been too large an affair the company, and they resell the Montpellier Gardens to r former owner for 500l. less than they gave for them, in return are to have a lease of a certain portion of the perty, and the sole right of bottling the natural mineral ers of those gardens, paying a certain royalty to the er. The company is endeavouring to raise more capital neans of shares in order to carry on the business of the ciation more efficiently. The chairman (Mr. Horace l enport) regretted that chemists did not more readily erstand the principle of co-operation on which the s ety was worked. Members seemed to think they were ling from the directors, and the money paid for bottles ald be returned to the members. The fact was that the ctors were merely agents for the members, and pur-(sed bottles from the manufacturers for them. erstand that several hundred pounds of new capital have ady been raised.

@bituarn

PPLETON.—On May 11, 1880, Mr. Joseph Hill Appleton, nist and druggist, Attercliffe. Aged 69 years.

ELLERBY.—On April 30, 1880, Mr. William Bellerby, ist and druggist, Newcastle-on-Tyne. Aged 61 years.

RUNT.—On January 6, 1880, Mr. Edwin Brunt, chemist druggist, Hyde. Aged 23 years.

RUNT .- On April 25, 1880, Mr. Thomas Henry Brunt, nist and druggist, Hyde. Aged 48 years.

ARDING.—On May 2, 1880, Mr. William George ding, chemist and druggist, late of Sudbury. Aged 48

ULDER.—Dr. J. G. Mulder, Professor of Chemistry in University of Utrecht. Aged 77 years.

GDEN.—On May 19, Mr. Hiram Ogden, chemist and gist, Broughton, Manchester. Aged 46 years.

ANKIN.—On May 7, at Troon, Mr. William Rankin, maceutical chemist, late of the firm of W. Rankin & Kilmarnock. Aged 78 years.

MART.—On April 26, 1880, Mr. David Smart, chemist druggist, Port Glasgow. Aged 36 years.

CODDART. William Walter Stoddart, F.I.C., F.G.S., was February 24, 1824, at Frestiford, near Bath. He was placed, on leaving school at the age of 16, in a carpet ufactory with his father at Kidderminster, where he ned the usual routine of weaving and dyeing. After e years this was given up for chemistry, in which he special interest. He then became the pupil of Mr. gkinson, now a member of the firm in Aldersgate et. Afterwards he lived for six years with Messrs. le & Smith, of Bath, and subsequently commenced ness for himself in Bristol. Most of his time for retion was spent in various scientific pursuits, and he sionally contributed papers to various publications. ongst others we may mention "A Singular Compound of ne and Quinine," and "On the Growths and Nature of ina Ventriculi." He afterwards paid special attention he potable waters of Bristol and the air of town dwell-He also read a paper "On the Lias Formation of the stol Neighbourhood" before the Geological Society of don, geology being always a favourite study of his. He a member of the Pharmaeeutical Council for some rs, but latterly his time was so much taken up that he

obliged to relinquish those duties. He was President

he British Pharmaceutical Conference at Liverpool and

Edinburgh (1870-71). For the last five years he was Public Analyst for the City and County of Bristol, the County of Somerset, and afterwards for the City of Salisbury, boroughs of Bridgwater, Chard, and Devizes. His health began to fail a few months ago, and his death took place at his residence on May 30, in the 57th year of his age. He was buried on June 3 at Stoke Bishop.

TAYLOR.—On April 16, 1880, Mr. Henry Taylor, chemist and druggist, Newbury, Bucks. Aged 63 years.

TAYLOR.—On May 27, Professor Alfred Swayne Taylor died in his 74th year. He entered Guy's Hospital as a student in 1823, and subsequently visited most of the medical schools in France, Italy, and Germany. He was the first professor of Medical Jurisprudence at Guy's Hospital, and his "Manual of Medical Jurisprudence" and "Taylor on Poisons" are well known to pharmacists.

WILLIAMS.—On April 20, 1880, Mr. William Thomas Williams, pharmaceutical chemist, Cardiff. Aged 26 years.



LIQUIDATIONS.

CROFT, JOHN HENRY, Sheep Street, Bicester, surgeon and apotheeary June 2.

DAVIES, THOMAS, 208 North Hill Street, Toxteth Park, Liverpool, chemist and druggist; also 19 Great George Street, Liverpool, corset maker, trading as E. Mullowney. May 18.

GETHEN, WILLIAM, 30 High Town, Hereford, chemist, &c. May 15. HEALD, BENJAMIN, New Sleaford, chemist and druggist. May 6.

MEINERTZHAGEN, EDWARD JOHN HENRY, & TURNER HENRY, 9 Mineing Lane, and Conrt Hill Road, Ladywell, Lewisbam, under firm of Meinertzhagen, Bell & Co., drug and colonial merehants. May 20.

MERCER, GEORGE, Market Street and Tenterhill, Wooler, chemist, &c., tobacconist, and grocer. May 8.
PHILLIPS, THOMAS, & COX, HENRY NORRIS, 17 Philpot Lane, chemica

agents and merchants. May 11.

SNEYD, THOMAS, Walsall, chemist and druggist. May 31.

SPALDING, WILLIAM RICHARD, Wheatsheaf Terrace, Leyton, chemist and dentist. June 1.

DIVIDEND.

WRIGHT, J., chemist and dentist. Second and final of 1s. on aul after May 14, at trustee, Lovewell Blake, Hall Quay Chambers, Great Yarmouth.

PARTNERSHIPS DISSOLVED.

DAVIDSON & LESLIE, Castle Place, Belfast, chemists. July 1, 1879. (Andrew Davidson and James Leslie.) Debts by Leslie.

LEATHEM, COULTER & HOWARD, Queen's Square, Belfast, wholesale groeers, druggists, and general merehants. May 13. (George Denham Leathem, John Coulter, and James Jerningham Howard.)

Massey, H., & Co., Church Street, St. Helens, drug, chemical, and oil dealers, also estate and commission agents. May 15. (Henry Massey and Robert Cassius Goldsmith.) Debts by Massey.

NESTLÉ, HENRI, Barbican, in vending Nestlé's milk fool. January 31. (Jules Monnerat, Gustave Marquis, and Robert Henry Cullen.)

MEDICINE IN EGYPT.—The following from the Egyptian Gazette seems to show that there is room for smart doetors in the land of the Pharaohs: -" It may sound strange in the ears of European doctors, but it is nevertheless true, that chloroform is not used at all in the native hospitals and searcely ever by native doctors in their private practice. It is not so very many years ago since one of the most cclebrated native surgeons withdrew from a case, in which death must have ensued had not a European surgeon insisted on using chloroform in the case. The native surgeon said he had never given it, nor would he in this easc (although the patient was his) take any responsibility in the matter. It is evident that the European element is required, not only in financial and other departments, but also in the Medical School." There is a medical school in Cairo, but if it is managed by native talent the students arc not likely to hear of any modern improvement in the same century which witnesses its diseavery.



A GENERAL tone of dulness has come over the trade of the country, and this is especially noticeable in the markets which we have to report. The official returns for last month, while they indicate an improvement over the figures of May, 1879, show clearly enough that a pause in the improvement has been arrived at, if, indeed, the check may be interpreted in that satisfactory manner. Not only is there a shrinkage in the volume of trade transacted, but the fall in values is becoming very marked. Of course, to a great extent, the present depression is the necessary consequence of the speculative excitement of six months ago, but in the ordinary course the effects of that period should have nearly spent themselves by this time.

The Board of Trade returns for May give a total of 17,277,876*l*. as the value of our exports; in May, 1879, the amount reached was 16,520,490*l*. The exports of chemicals are thus stated:—

 May, 1879
 May, 1880

 Alkali
 . cwt. 598,471
 . 595,127

 Alkali
 . value £187,638
 . 209,230

 Chemical products
 . £171,526
 . 185,595

The fall in chemicals still continues, though in soda there is a distinctly firmer feeling within the past week. Crystals, for example, which have been down to 63s. 9d., have recovered to 66s. 3d., rather lower than last month, but not the lowest point touched. A good stock is said to be still held in second hands, and the market can hardly be safe while this continues; but the upward tendency now noted may cause most of them to hold with more firmness, and thus help it onward. Citric and tartaric acids and cream of tartar have not fully maintained their late high prices, as speculators desire to unload when summer contracts are mostly completed. Borax is a little easier than it has been.

Speculation has nearly deserted the produce markets, and in most articles stagnation prevails. Opium is still held by the Anglo-American syndicate, but it is impossible to predict the future of this article until reliable reports of the new crop are received. Sales of good Turkey have been made in London last week at 23s. 6d., and it is said that the Smyrna price for a similar quality is 27s. 6d. The new crop is variously estimated at 2,000 to 4,000 baskets, and with such a margin nothing approaching a valuable opinion can be formed. Barks have hardly maintained their ground. The sales have been without animation, but good workable qualities have sold at steady rates. A slight decline in quinine is quoted. The holders of camphor have had to give way, and raw and refined are a good bit lower. Copaiba balsam is still scarce, and is held firmly for high prices. Peru is held for 10s. 6d. Cinnamon was very dull at late sales, and marked a fall of 4d. to 5d. Cochineal and cardamoms have also sold in favour of buyers. Calumba root is scarce and is worth 5l. per cwt. The price for essential almond oil is much dearer, and lemon and bergamot are fairly maintained. Otto of roses is expected to be plentiful and of fine quality. There is no notable change in gums, except that Turkey is rather easier.

Of drugs at auction not quoted in our list we may name bael fruit bought in at 1s.6d.; Calabar beans sold at $1s.0\frac{1}{2}d$.; elaterium sold at 4s.; ergot of rye at $1s.11\frac{1}{2}d$.; honey from Buenos Ayres, and also some from Hamburg, rather yellow, bought in at 45s.; jaborandi leaves bought in at 1s.2d.; areca nuts at 38s. Brands of essential oils were bought in at the following rates:—Fisher's mace, 4d. per oz., Quetting's

wintergreen, 14s.; Dodge & Alcott's, 14s.; & Quettin peppermint, 12s.

Shellac, which fell rapidly to the end of May, has si taken a turn upwards, and is now nearly at the same pr ; as a month ago.

The oil market offers no exception to the general tone quietude. Olive has a tendency towards lower prices, reports from Messina indicate that a bountiful crop maj expected. Linseed and rape are steady in price, but oils are still further declining. Turpentine has commen ! to decline, and the downward movement may be expect to continue, as new arrivals will ensure a regular: Quotations for a month in advance are at 27s., and for .; to December 23s. Petroleum is fractionally stronger. market has been enlivened during the month by a disp between the brokers and the Petroleum Association a the right of the former to claim from the Association dt cates of certificates as to the "new test." The brokers is sold "new test" oil on the anticipation that what had la bought under "old test" certificates cou'd be sold will "new test" certificate. The refusal of the Association) grant these certificates caused an artificial famine for while in "new test" oil.

Stocks of drugs in the port of London stood as folls on May 31:--

	1880	1879		1880	1
Aloescs	1,421	1,671	Gum (cont.)—	1	
"kegs	12	11	Galbanum pkgs	12	
"gourds	280	755	Gamboge. "	145	
Aniseed, Star chts	410	615	Guaiacum ,	65	
Arrowrootcks	13,166	12,332	Kino	34	
" bxs & tins	14,544	11,563	Kowrietns	446	
Balsamcks, &c.	19	39	Masticpkgs	125	•
Bark, Medicinal			Myrrh, E.I.	171	
cks, &c.	697	154	Olibanum ,,	3,971	2,
" srns, &c.	19,676	13,278	Sandarac ,	382	
Boraxpkgs	570	628	Senegaltus	- 21	
Bees' Waxbls &			Tragacanth pkgs	2,738	1
srns	802	593	Ipecaccks & bgs	130	
-1-a f- a-	2.198	2,596	Jalapbls	235	
,,,	124	27	Nux Vomica pkgs	995	3
Wax, Jap. veg. pkgs	11,570	4 422	Oil—		
Camphorpkgs	6,651	10,226	Castorcks	338	ж.
Cardamomschts	425	556	,,cs	15,138	7
Cocc. Ind. bgs, &c.	1,365	1,597	Palmtus	1,022	1
Colombo root pkgs	360	559	Cocoanuttns	5,923	4
Cream Tartarcks	187	101	Olivecks, &c.	1,221	- 2
Cubebsbgs	98	162	Aniseedcs	217	
Dragonsblood chts	173	50	Cassia cs	349	
Galls, E.I. cks & cs	3,567	2,588	Opiumchts, &c.	982	
M'terranean sks	562	916	Rhubarbchts	962	10
Gum-	002	010	Sarsaparillabls	550	
Ammoniac pkgs	397	491	Sennabls, &c.	1,810	
Animi & Co; al	001	101	Shellac-	-,	
pkgs	1,897	3,868	Orangechts,&c.	23,006	21
Arabic, Barbary	1,001	0,000	Garnet "	14.582	10
pkgs	2,376	1,388	Button "	2,558	- 10
	3,149	787	Gambiertons	2,945	
	1,990	1,659	Cutch,	676	
Assafœtida pkgs	292	532	Cortoisesbell,cs,&c.	209	
	2,198	1,100	Turmerictons	3,054	
	4,570	230	Vermilion	150	
Damar ,,	3,010	200	The state of the s		-

WHAT IS THE BEST REMEDY FOR BOILS.-Sul 6 of calcium, undoubtedly. A tenth of a grain st be taken hourly, or every two or three hours. the inflammation, and reduces the are lessens Moreover, it liquefies the core, the boil. separates more speedily, and the troublesome little vi is induced to take its departure. When the skin is no broken, and the slowly separating core not exposed, medicine often converts the boil into a little ab which soon bursts, and the whole thing is over. sulphide is taken sufficiently early, the boil often drie the inflammation subsides, and a hard knot is left, with disappears in a few days without the formation of a and without any discharge. The sulphide exerts a ma influence on the general health, removing the debility d malaise so frequently associated with these eruptions. only will the sulphide of calcium, taken in the mann have indicated, cure existing boils, but it will often pr the formation of fresh ones.—From Cassell's Family sician for June.

Ferhange Column.

Terms.—Announcements are inserted in this lumn at the rate of one halfpenny per word, condition that name and address are added, ame and address to be paid for. Price in ures counts as one word.

If name and address are not included, one ony per word must be paid. A number will eo be attached to the advertisement by the blisher of THE CBEMIST AND DRUGGIST, and correspondence relating to it must be dressed to the "Publisher of THE CHEMIST DRUGGIST, Colonial Buildings, Cannon rect, London, E.C.," the envelope to be iorsed also with the number. The Publisher I transmit the correspondence to the advergr, and with that his sbare in the transaction I cease.

Deposit of Money.—In order to ensure ety we offer the following system:—The chaser of anything advertised in the Exoge Column may remit the amount to us. shall acknowledge receipt to both parties by t-cards, and shall only pay it away on the rice of the remitter. Whether returned to a or paid to the seller, we shall ebarge a comsion of 2½ per cent. on any money thus sing through our hands, and not less than 6d, any single transaction. This arrangement uld entirely prevent any cause of complaint dissatisfaction arising out of this section of R CHEMIST AND DRUGGIST.

FOR DISPOSAL.

Dental and Surgical.

o Pulvermacher's chains, cost 42s. each, nearly new, only used once, quite clean; 22s. for the two. A. Deek, Cambridge.

antity of trusses, much soiled, otherwise good; various sizes. What offers? Will be seld cheap. Young, Chemist, Warriagton.

Drugs and Chemicals.

wt. gum siftings. 159/22 E.

riage paid.—16 oz. morph. hydrochlor., B.P., 10s. per oz. 160/11.

es Barb., aloes Cape, Chinese blue, Prussian blue, tin crystals, extract indigo. 159/22 D. wt. citric acid, English, 2s. 3d. per lb.; 4 cwt. salicine, 14s. per lb. Mark Cooper, Chnrch, Lancashire.

o or three Winchesters bals. copaibæ; 112 lbs. pure sodæ bicarb., hds. Apply, Bratley, Chemist, Pontefract.

efarlane's morph. mur., 10s. 6d. oz. Allen Smith, Chemist, Sale.

1-oz. bottles McFarlane's morphia What offers? "Chemist," 107 Prescot Street, Liverpool.

rphia acet, in oz. bottles, manufactured by Smith. What offers? Everitt, Clerkson Street, Mansfield, Notts.

lbs. of the finest Turkey opium, in splendid condition to be sold in one lot. What cash offers? R. T. Watson, Pharmaceutical Chemist, Jarrow-on-Tyne,

z. morphiæ hydrochlor., about 1 lb. opium, and a few other drugs from reduced stock; will take one fourth less thau list price. 114/17 B.

Optical.

irst-class hinocular microscope, with coarse and fine ad nstment, condenser and animalculæ cage, having ½-inch triplet object-glass of superior quality, dividing into quarter and half, and a 2-inch triplet, fr low power, in brass hoxes, in a handsome mahogany cabinet with lock and key, quite new, selling price, 104. 104.; offered for five guineas, a bargain. J. T. Slugg, 242 Streford Road, Manchester.

Henry Laurance's spectacles, assorted, from 2s. 6d. to 10s. 6d.; amount retail prices, 26l. 10s.; perfectly new. What offers? 158/2.

Apparatus.

Small paint-mill. 159/22.

Second hand drug-mill, diameter of hasin 17 inches, price 31. Cubitt, Norwich.

Cocking's double-action pill machine, perfect, nearly new, cheap; also burnisher. 157/10.

Copper still, 20 gallons, complete, with head and tap, also worm and condenser, good condition. E. B. Kendall, York.

Pinder's rotary pill machine and press, good as new; four grain; price 7l, 10s.; a bargain. Apply, James Watson, Rose Corner, Norwich.

Double-action steam-pump, four-horse power, never been used, suitable for oil-refiner or mineral-water manufacturer; price 201. 150/50.

Soda-water and lemonade machine, complete plant, patcht bottles, van, steam-power, receip's, &c., second-band. N. G. Wilcocks, Bath.

Several of Baker's patent combined sifting machines complete, with four sieves, quite new; price 11s. Apply, Messrs. Gravett & Martin, Chemists, East Grinstead.

Marsh's arsenic apparatus, complete; Liebig's condenser, ou staod; bell for desiccator; glass percolator and receiver; flat glass disb, 7 in. by 4 in.; 2-pint and 1-pint glass retort; all cbcap. Hardy, Chemist, Taudragu, Ireland.

American ice-cream soda-water machine by Dows & Clark, wi h 18 syrup-taps; to a large confectioner or druggist in the South it would during the summer be most remunerative; it will be soid at almost a nominavalue. Baildon & Son, Chemists, Edinburgh.

Hayward Tyler's No. 1 Bramah's continuousprocess soda-water machine, with pump and condenser, gas-generator, copper gasometer, and oak-casing solution-pan, pipes, and attachment; bottling machine and other apparatus; at a bargain. Manager, 135 Queen's Road, Brighton.

Educational.

Chemicals sent for analysis to students, and reports on same corrected; terms low. 159/7. Materia Medica.—A cabinet of 150 specimens, only 10s. 6d. Write for testimonials to Mr. Tully, Tunbridge Wells.

Southall's Materia Medica Cabinet. Almost new; cost 30s. What offers? S. Taylor, Queen Square, Wolverhampton.

Botaoy.—Herbarium, containing all the leading indigenous and officinal plants, 120 specimens, 10s. 6d. Send for testimonials to Mr. Tully, Tunbridge Wells.

Fifty questions asked of a successful student at last Minor, 2s.; 30 prescriptions (eatch and difficult) given to dispense at Minor during past session, 2s.; reagent labels for Minor students, showing formulæ, equations, and other useful knowledge, 1s.6d.; 1ot of cheap books for students; send stamp for list. Saunders, Tutor, 79 Gaisford Street, N.W.

Shop Fittings.

Alout 40 old blue Delft-ware shop-pots, burnt-in names. 157/28.

Shop bottles, fittings, specie-jars, drugs, patents, and other proprietary goods, mirrors, colours. List on application. 151/14.

Glass case, fig. 3 Maw's catalogne, cost 111., condition perfect, good as rew; best bid over 61. accepted. W. K. Ferguson, Chemist, Leeds.

Two handsome specie jars, gilt covers; quantity ½-1b. and 1-1b. stoppered bottles, labelled, wide and narrow mouth. What offers? Beverley, Nottingham,

Handsome show-jar, perfect shape, lahelled "Turkey Sponge," height to top of (metal) cover 33 inches, diameter 16 inches. Young, Chemist, Warrington.

The entire fixtues and utensils of six chemists' shops for disposal. Will be fixed at less than half the usual cost; some of these are suitable for a first-class husiness. Lloyd Rayner, 333 Kingsland Road, London.

Cheap.—The fittings of a well appointed pharmaey, in polished mahogany, including cases, counters, drawers, &c., carboys with polished stands, a full set of gold-labelled bottles, jars, and pots. Lancister, 2 Osnaborgh Road, N.W.

One cigar-case, similar to Maw's 83, tablet "Choice Cigars," 2 feet long, five compartments, 20s.; 12 6-lb. pink jars, dome.top, 4r. 6d. cach; 11 4-lb. light hlue, Maw's fig. 1, 2s. each; 5 tooth instruments, lower molar left, 3s. 6d. each; 2 bicuspides, 2 straight, with screw for stumps, 3s. 6d. each; 80 doz. ½-oz. cold-cream po's, burntil. b.b.ls, 1s. 2d. per doz.; 6 eartbenware slabs, 7, 9, and 10 inches square, 9d. each; 6 small glass cases, as Maw's fig. 81, 9 by 12, price 4s. cach. The above is part of Mather's stock, new and perfect. Address, Pare, Boltou.

Fifteen maliogany-top counters, all sizes; 5 dealtop counters; 4 mahogany top counters, with glass-case fronts; 25 mabogany wall cases, from 2 to 20 feet long; 8 stainedmabegany wall-cases; 35 nests gold-labelled shop-drawers, from 2 to 20 feet long; quantity upright counter-cases, with and without desks; quantity dispensing-case screens, from 3 to 10 feet loog; quantity office or counter desks, with screens; quantity bent-glass counter-cases, from 18 inches to 10 feet long; quantity flat counter-cases; quantity shop bottles and jars, oil bottles, syrup bottles, specie jars, and carboys, shop doors and fronts, wiodow and counter show-stands, soda-water stands and sponge-cases, toothbrush-eases, Maw's 72. Lloyd Rayner, 333 Kiogsland Road, Loudon.

Literature.

Pharmaceutical Journal, weekly, for Lancet or New Remedies, 154/37.

Babington's "Flora," last edition. Coles, 2 French Gate, Doncaster.

Pharmaceutical Journal, postel on Saturday. Illsley, Ripley, Derby.

Pharmaceutical Journal, 1880, posted same day as received, with back numbers; what offers? X. Y. Z., 91 Blackman Street, S.E.

Four Chem'st and Drugjist Diaries, from 1876 to 1879; one a little written in; what offers? H.K., 242 Stretford Road, Manchester.

Pharmacu'ical Journal, February, 1871, to December, 1879; perfectly clean; missing, September 1 and 7, 1872. Chemist and Dru-gist, January, 1873, to December, 1879. What offers? Allen Smith, Chemist, Salc.

The Chemist and Druggist, a complete set, from the beginning to the end of 1880; from 1859 to 1871, 13 years, in 12 volumes, bound in green cloth; unbound from 1872 to end of present year. Offers wanted. H. K., 242 Stretford Road, Mancbester.

The I harmaceutical Journal, bound, one volume, 1850 and 1851; 11 volumes, 1858 to 1868; unbound, from July, 1858, to December, 1869, and from July, 1870, to January, 1873, two parts short. Offers wanted. H. K., 242 Stretford Roal, Manchester.

- Chemist and Druggist, 1877, 1878, 1879, complete, 10s. 6d.; 1-gallon graduated glass percolator, 12s. 6d. John Lea, Folkestone.
- Squire's "Pharmacopœia," 5s.; Attfield's
 "Chemistry," 5s.; Southall's "Materia
 Medica," with several additions, 10s.;
 Wills's "Pharmacy," 1s. 6d. Address,
 Alfred Smith, North Street, Winchcombe,
 near Cheltenham.
- Preira's "Materia Medica," three volumes;
 British Pharmacopeia, with additions;
 Lescher's "Elements of Pharmacy," fourth
 edition; Attfield's "Chemistry," second
 edition; Bentley's Botany, second edition,
 &c. Write for particulars to Sneath,
 Chemist, Newark, Notts.
- The Chemist and Druggist from 1869 to 1879, only two numbers missing; the Pharmaceutical Journal from Jan. 5, 1878, to May 1, 1880, a few numbers missing; Brooke's Gazetteer, 1851, published at 15s. Offer wanted? Address, Chemist, Chandos Road, Redland, Bristol.
- Bentley's "Botany," new, 10s.; Pereira's
 "Materia Medica," 5s.; Fresenius' "Qualitative Analysis," 5s.; Muter's "Chemistry," 7s.; Bloxham's "Laboratory Teaching," 3s.; Tomes's "Dental Surgery," 7s.; Ringers's
 "Therapeutics," 7s.; Druitt's "Surgeon's
 Vadc Mecum," 7s.; Books for Royal Coll.
 Surgeons' Prelim., 10s.; Fowne's "Chemistry," 2s. 6d.

Formulæ.

- Formula to coat pills, as before advertised, 1s. Hoddinott, Boundary House, Barnet.
- "Foaming Dentifrice," undetected from "Floriline"; "Grape Saline," resembles and substitutes Eno's; formula 2s. 6d. each. 150/31.
- Infallible cure for corns, 2s. 6d. Send stamp for select list of veterinary, perfumery, &c., formulæ (collected in high-class establishments), 1s. 6d. each, 10s. a dozcu. J. T. R. Evans, 7 Timbrell Street, Trowbridge, Wilts.
- Nubian Blacking.—Recipes for preparation similar in appearance, smell, and effect to above; composition and ink for copying apparatus; sulphur lotion; printers' roller composition; hair cream (white and inseparable); German lark meat; wood stains, and others; lot, 7s. 6d. Wittstien, Lower Broughten, Manchester.
- Indestructible marking-ink (sine silver), nsable with any pen, requires no heating, writing unobliterated by chemicals; brilliant polish for leather (resembles "Nublan" hlacking), soluble essence of ginger (equal to Hay's), cherry tooth-paste (never ferments), elixir (or vinum) pepsinæ, toilet vinegar (equal to Rimmel's), with several others. Send stamp for list, all genuine and reliable, 5s. each (five for 11.). "Analytical Chemist," Herbert Heblethwaite, Cumberland Market, N.W.
- Fragraut foaming dentifrice (similar to Floriline); glycerine jelly (perfectly transparent); cherry tooth paste (never ferments); hrilliantine (inseparable); lime-juice and glycerine (inseparable and perfectly white); splendid black ink (never corrodes steelpens); marking ink (black or red); effervescing fruit saline (resembles Eno's); pillcoating (pearly white, no mucilage or mastic used); magic neuralgic drops (never-failing remedy); quinine and iron tonic (resembles Pepper's); excellent chilblain paint; cough mixture (clear red, effective, and agreeable); with many others; send stamp for list. The toilet articles are identical with those prepared by a renowned West-end perfumer; the others are equally good; all inexpensive to prepare; 5s. each (five for 1l.); inquiry letters must be prepaid. "Analyst," care of Mr. Warnes, 79 Gaisford Street, N.W.

Chemist going abroad has the following excellent formula:—American pick-me-up (as largely sold by an old city house) cough mixture (very efficacious) also great variety of pills, tooth-powders, perfumes, pomade, &c., all inexpensive to prepare, and commanding good price and sale. Price 2s. 6d. each, 10 for 11. W. Walton, 3 Crescent Place, Burton Crescent, W.C.

Proprietary Articles.

- Six Rooke's elixir (11s.), clean, at 6s. each. Fortune, Anstruther.
- Three dozen Barrow Evans' hair restorer; what offers? Davidson, Dundee.
- Job lot patent medicines, value 101.; 41., or offers. 159/9.
- Barher's, Steiner's, and Gibson's vermin-killer. 159/22F.
- Six dozen 1s. Maw's "Alexandra" feedingbottles; 6 doz. 1s. export ditto; 1 doz. 1s. export screw-cap; what offers? 156/!4.

Miscellaneous.

- Large iron safe; nest of 32 drawers, large size. 159/22B.
- 6 cwt. blacklead, in packets; 7 cwt. cake "Lion" blue, 159/22c.
- New electro teapot and cake basket, presented by proprictor of Siegel's syrup. 159/25.
- One hundred copper coins, old and foreign, best offer. E. Watsou, 1A Moreton Street, Pimlico.
- One-gallon copper spirit measure, 8s.; French movable atlas of the human body (new), neck and trunk, 6s. Highway, Walsall.
- About one ton Gill & Tucker's blue starch in ½-cwt. boxes, 24s. per cwt. Mark Cooper, Church, Lancashire.
- Quantity meat dog-hiscuits, equal to Spratt's, 13s. 3d. per cwt., 5 bags 3d. less. Elmitt, Horncastle.
- Ladies' and gentlemen's urinals, very portable, never made at the price, sample 3s. 6d. W. Caunt, 5 Green Lane, Penge, S.E.
- Wedgwood mortars, no pestics, 1 No. 2. 1 No. 1, 7 No. 0, 7 No. 00, 11 No. 000. What offers? Slack, Stockport Road, Manchester.
- Four pairs real Japanese vases, came from Japan, beautiful ware and antique shapes, price 1s. 9d. per pair, lot for 5s. H. Kemp, Horncastle.
- Dispensing corks, about 20 gross 6 and 8 oz., very superior, nearly 1½ inch long, cost 3s., sell 1s. 9d., sumples 1½d. free. Maitl and, Stonehouse, Plymouth.
- Handsome saline wrappers, crimson or blue, on white enamelled paper, 100 post free 60 stamps, sample 1½d. post free. Maitland, Stonehouse, Plymouth.
- One suppository-mould, silver-plated, Maw's, 5s.; plaster-iron and 4 pairs tooth-fore eps, molar, cuspids, stumps, new, maker Savigny, 12s. 114/17a.
- Splendid inlaid musical-hox, plays six tunes, nine hells, cost 101., price 51., good as new. "Pharmacist," 369 New North Road, London, N.
- A first-class mahogany writing-desk, in good condition, price 26s.; also a morocco-leather travellir g bug, well lined, price 16s. "Chemist," 20 Dean Street, Bedminster, Bristol.
- Bottles (Dirty).—Champagnes, Zoedones, Apollinaris, wines, ales, brandies, pickles, sauce, Eno's, Lamplough's, &c., for cash or exchange for new bottles. Glass, 66 Coleman Street, E.C.
- Two specie-jars with stands, 16 by 16 by 5 inches, 3l.; quart copper still, with worm, 15s.; ½-gallon displacement apparatus, Y. G. Co., 15s.; Post-office Directory, 5s.; Pharmacopoeia, 1867, 5s. Barlow, Blackheatb, Dudley.

- Quantity still left of large, handsome couch shells, sell well, price 8s. per dozen, sample shell nine stamps; two handsome wellfinished genuine Zulu assegais, make a nice curiosity for shop, price 3s. each. H. Kemp Horncastle.
- Quantity cortex cinchoua, mixed, good qualities, 3s. 6d. lb.; hops, 1s. 9d. lb., sample either six stamps; marking-iuk stretchers, 1s. 9d. doz., sample three stamps; 23 1s.1½d. Camerou ointment; 3 Bilin pastiles, what offers? Garman Brothers, 278 Roman Road, Bow, E.
- Fly-papers, a few parcels, 4s. 6d. per 1000; corks, Daffy's, 100 gross excellent quality, 5d. per gross; 80 gross fine wine, 6d. per gross; 30 gross finest velvet taper spirits. 10d., cost 1s. 9d.; also very superior black enamel hide "Gladstone" hag, double action lock and usual fittings complete, unsoiled, price 26s, cost 42s.; also few vols beautifully-illustrated books, cheap. R Halford, 301 New John Street, Birmingham.
- Show-jar, equal to new, Mather's fig. 1, cost 31. mahogany stand for 6-gallon hottle; pil machine to make 24 5-grain, nearly new 14 8-oz. w.m. bottles; 15 8-oz. w.m.; 9 20-oz w.m.; 29 20.oz. w.m.; 17 30-oz. w.m.; 2 30-oz. w.m.; 15 40-oz. w.m.; 17 40-oz. w.m. 7 49-oz blue syrups; 5 40-oz. glass-capped 23 3-lb. blue ung. jars; 10 12-oz. pill jars above little used and gold-lahelled; cigar case, 3 divisious, cost 183.; 3 nests of drawers, length 12 ft. 6, dovetailed, au containing 126 drawers, plain-labelled, ex cellent condition, price 51.; capital counte 2 parts, 13 feet long, mahogauy grained with 20 large drawers, price 51.; 391 gallor Stettin colza oil, price 41. 15s.; 6 galler Brunswick black and can for 11.; 16 da Herbert & Godfrey's spectacles, cost 61. 12s for 41.; 1 3-cwt. platform weighing-machine cost 31. 13s., for 21. 8s. Offers, &c., requeste for above. Also on sale, stock of dru sundries, proprietary articles, &c., at co siderably less than cost-price. A casolicited. Heaton, Chemist, Little Hulto near Bolton.

WANTED.

- Acton's "Reproductive Organs." Cheap. 154/ For cash, cheap, Acton's "Reproductive Orga-158/19.
- Chemist and Druggist's Diary for 1880. S. Over Son & Co., 102 Lower Thames Street, E.
- Two, six, or eight gallon carboys. State low price to H. H. Taylor, Middlesborough.
- A second-haul lamp, similar to Maw's fig. 10. Price to Smith, Canton House, Worth A good-sized counter show-case. Send part
- lars and lowest price. 159/8.

 Samuel Moore's (late Houndsditch) broucigarettes. 158/13.
- Hayward's "Botanist's Note Book." C, 2 French Gate, Doncaster.
- A large press, suitable for mushrooms. Par lars to Noles & Son, Great Yarmouth.
- Chemist and Druggist for February, 1879.

 price given. Young, Chemist, Warring
 Deal drawers for underneath counter.
- s'z³, price, number. Edmunds, New , Mon. Any surplus stock of silk stockings, knee ;
- leggings, &c., also Squire's "Compar" Casely, Camden Town. "British Pbarmacopœia," Muter's "Chemis"
- latest editions. Lowest price to Far 5, Spennymoor.

 Chemist and Druggist wanted in exchang or Pharmaceutical Journal. Moore, le
- Cars.

 Pateut medicines, proprietary articles, or er goods, in exchange for Dutch ps (24s. per gross). D. Haigh, Fulstone il, near Huddersfield.

Monthly Price Current.

The prices quoted in the following list are those actually obtained in Mincing Lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from them useful conclusions respecting the prices at which articles are offered by the Wholesale Firms.

HEMICALS.	1880		1879.
ACIDS— Acetic per lb. pure glacial, Benzoic Sublimate Ex. Gum. per oz. Citric, Gallic, Hydrochlor per lb. Oxalic, Sulphuric, Salieylic, Tannic, Tannic,	6. d. 0 2½ to 0 4 0 10 7 3 0 9 24 3 4 3 5 0 0 4 0 0 0 2 8 0 1 9	s. d. 0 3½ 0 7½ 0 10½ 0 0 0 0 0 0 0 0 0 0 0 4½ 0 0 1 8 6 2 10 1 8½	s. d. s. d. 0 2½ to 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 0 7 0 0 4 4 0 0 0 4 0 0 4 0 0 3 0 1 0 0 0 0 0 1 4 0 0 0
powdered ,,	1 8 0 0 0 0 0 0 0 9 0 9 9 6	1 8½ 0 0 0 0 70 0 0 0 0 0 0 0 0 0 10 0 11 6	1 4 1 4 240 0 300 0 36 0 0 0 0 0 0 0 25 0 0 0 8 9 0 0 102 6 105 0 9 6 10 9 10 6 12 9
refined, 4 crude brown , 3 IODINE, dry , per oz. 1 MAGNESIA, calcined , per lb. 1 Powder, Hwds MERGURY , per bottle 13 MINIUM, red per cwt. 1 orange , 1 PRECIPITATE, red , per lb. 5	2 0 1 2 1 10 5 0 0 0 0 0	57 0 34 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 2 0 0 1 10 0 0 0 0 0 0 122 6 0 0 15 9 16 0 28 9 0 0 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SALTS— Alum per ton 13: powder , 15: Ammonia: per lb. Carbonate , orude,	5 0	27 0 140 0 0 0 0 63	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
white per ton 600 Sulphate per ton 375 Argol, Cape per cwt. 77 Red , 77 Oporto, red , 38 Sicily , , , 6 Borax, British refind , , 55 Calomel , , 55 Calomel , , 54 Liebreich's , 55 Copper; , 5		800 0 38) 0 9) 0 79 0 0 0 6 6 57 6 0 0 4 4 6 0	600 0 720 0 350 0 355 0 75 0 82 0 56 0 70 0 28 0 65 0 5 9 0 0 35 0 36 0 2 9 0 0 0 0 0 0 0 0 0 0
Sulphateper cwt. 22 Copperas, green per ton 55 Corrosive Sublimate p. lb. 2 Cr. Tartar, Frencb, p. cwt. 123 brown ,110 Epsom Salts ,3 Magnesia: Carbonate ,4 Powder, Hwds. ,74 Morphia Murias ,11 Potasb:	0 3 0 1 0 2 0 6	0 0 60 0 0 130 0 112 6 6 0 4 6 0 0 0 0 0 0 0	18 0 0 0 50 0 55 0 2 2 0 0 100 0 102 0 80 0 82 6 4 3 6 0 3 0 4 6 47 6 0 0 8 0 0 0
Bicbromateper lb. 0 Carbonate: Potasbes, Canada, 1st sortper cwt. 23		0 0	0 5 0 0
Pearlasbes, Canada, 1st sort per cwt. 32 Chlorate per lb. 0 Prussiate , 0 red , 1 Tartrate (see Argol and Cre-	6 111	0 0 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Bromide	11	2 0 0 0 18 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Salphate, British, in bottlesper oz. Sulphate, French 12 Sulphate, French 12 Sulphate, German 11 Sal Acetosper lb. 0 Sal Ammoniac, Brit. cwt. 44	6 6½	12 0 0 0 0 0 0 7 45 0	11 6 0 0 11 6 12 0 0 0 0 0 0 6 0 61 44 0 45 0

		_			_		
			188	0)	187	70
Saltpetre:	8.	d.	100	s. d.		s. d.	s. d.
Bengal, 6 per cent. or	٥.	u.		o. u.	1	o. u.	s. a.
	21	9	to	22 3	18	8 9 t o	19 3
underpercwt.	21	9	LU	22 3	1	8 9 t c	19 3
Bengal, over 6 percent.	21	0		21 6	13	7 9	10 0
per cwt.			• •			0 0	18 6
British. refined ,,	26	6	••	28 0	2		25 0
Soda: Bicarbonate ,,	10	9	• •	0 0	5		
Hwds	45	0	• •	0 0		0	0 0
Carbonate:					١.		
Soda Ashper deg.	0	11/2	••	0 0	(0 0
Soda Crystals per ton	66	3	• •	0 0	62		0 0
Caustic	10	0	• •	19 6	[{		10 0
Hyposulphite, per owt.	0	0		0 0			0 0
Nitrate ,,	14	0		14 3	14	. 0	14 3
Zinc Sulphate	18	0	• •	0 0	16	6	0 0
SUGAR OF LEAD, Whitecwt.	40	0		0 0	38		0 0
SUGAR OF LEAD, Whitecwt. Brown, cwt.	26	6		0 0	26		0 0
VERDIGRIS per lb.	0	0		0 0	1 1		1 5
VERMILION, English ,,	2	5	••	0 0	1 2		0 0
China	2	1		2 2	1 2		0 0
ORUGS. "	_	-	•••		1 1		
ALOES, Hepatic per cwt.	60	0		150 O	70	0	160 0
Constring	95	ŏ		190 0	190		000
Come mend	43	ŏ	••	46 0	4		51 6
Cape, good ,,	4)	0	• •		40	۸ ۸	
Inferior ,,			• •				42 6
Barbadoes . ,,	50	0	••	190 0	3	١ ۵	160 0
AMBERGRIS, greyoz.	3)	0	• •	8) 0	4) 0	68 0
BALSAM-	_				1		
Canadaper lb.	1	0	• •	0 0	1 9		0 81
Capivi,	2	3	••	3 0	1		1 10
Peru ,,	8	0	• •	10 6	4		4 6
Tolu,	2	7		3 8	2	26	0 0
BARKS-							
Canella albaper cwt.	12	0		18 0	20		28 0
Cascarilla,	18	0	••	20 0	2		35 0
CINCHONA-							
Calisaya, good and fine per lb	. 5	6		8 6	4	16	6 6
modium	. 3	9	••	5 0	3		5 0
N Cronad fairta fina	5	0		6 4	1 6		0 0
	2	0	••	4 6	d		0 0
,, ord. to mid. ,,	3		••	4 6	4	Δ	6 4
Columbian, fine,		8	• •		1		
ord. to fair ,,	1	0	• •				3 6
Carthagenz, gool "	3	7	• •	4 10	2	0	4 6
,, good medium., ,,	2	0	• •	3 3	2		2 6
E. I. mossed,	6	0	• •	12 7	0		0 0
Ceylon, crown,	5	0	• •	7 0	4		7 0
,, red,	- 1	6		2 0	0		0 0
Darjeeling, red fine	3	3		3 6	3		3 9
BUCHU LEAVES ,,	0	2		0 11	(1 1
CAMPHOR, China per cwt.	9)	0		92 6	73		0 0
Japan "	95	0	• •	10) 0	76		80 0
Refin. Eng. per lb.	1	4		0 0	1		0 0
CANTHARIDES	1	8		4 3	1		4 3
CHAMOMILE FLOWERS p. cwt.	4)	0		90 0	0	0	0 0
CASTOREUM per lb.	12	0		26 0	. 0	0	0 0
DRAGON'S BLOOD, lp. p. cwt.	90	0		320 0	103		260 0
FRUITS AND SEEDS (see at	so Se	eds		Spices).			
Anise, China Star per cwt.	85	0		99 0	82	6	90 0
Spanish, &c. ,,	3)	0		38 0	35		42 0
Beans, Tonquinper lb.	3	6		4 9	4		6 0
			•••		-		• •
Cardamoms, Malabar	6	6		8 6	5	6	7 3
inforior	3	0	• •	6 0	2		5 0
inferior ,,	2	9	• •	6 6	2		6 6
Aleppy ,,			• •		2		5 0
Madras,	1	6	• •		2		4 10
Ceylon ,,	2	6	• •	4 6			
Cassia Fistulaper cwt.	21	0	• •	35 0	4)		57 0
Cocculus Indicus ,,	7	6	• •	8 0	7		8 6
Colocynth, apple per lb.	1	3		1 6	1		1 10
Croton Seedspercwt.	50	0	• •	52 6	22		27 0
Cubebs	€3	0		65 0	50	0	0 0
Cummin	33	0		33 0	27	0	41 0
Fenugreek ,,	9	0		18 0	10	0	0 0
Guinea Grains ,,	33	0		40 0	0	0	0 0
Juniper Berries ,,	0	0		0 0	3		6 0
Nux Vomica,	7	0		9 0	6	6	9 0
Tamarinds, East India,,	10	0		16 0	8		15 0
West India ,,	13	6	••	19 0	18		21 0
Vanilla, large per lb.	15	0		21 0	40		41 6
inforior	4	0		14 6	20		4) 0
Graden Processed	0	51		0 71	0	per .	0 6
HONEY, Chili per cwt.	56	0	• •	63 0	30	0	34 0
Tamaiaa	34	o	• •	50 0	35	Δ.	41 0
TERROACHANHA north		8	••	5 2	3	1.1	4 6
IPECACUANHA per lb.	4		• •		2	0	5 1
Isinglass, Brazil	2	6	••	4 11			5 2
Tongue sort ,,	2	9	••	5 0	3	2	4 0
East India ,,	1	0	••	4 10	1	0	4 6
West India ,,	3	2	••	4 10	3	2	5 2
Russ, long staple	6	0	••	10 6	6	0	10 6
,, inferior	0	0	••	0 0	0	0 •••	0 0
" Simovia	2	0	••	2 6	1	6 **	2 6
JALAP, good,		11	• •	1 2	1	0	1 2
infer. & stems ,,	0	9	• •	0 1)	0	1)	$0.11\frac{1}{2}$
LEMON JUICE per degree	0	07		0 11	0	07	0 11
LIME JUICE per gall.	1	3	• •	1 8	1	3	1 8
LIQUORICE, Spanish per cwt.	3)	0		36 0	0	0	0 0
Liquorice Root ,,	2)	0		3) 0	0	0	0 0
MANNA, flaky per lb.	0	0	• •	0 0	3	6	4 ()
Musk, Podper oz.	10	0	• •	69 0	20	0	70 0
Grain	30	0	••	70 0	0	0	0 0
OILS (see also separate list)							
Almond, expressed per 1b.	1	8		0 0	1	9	11)
Castor, 1st pale ,,	0	$3\frac{1}{2}$	••	0 41	0	41	0
second ,,	ŏ	31		0 31	0	33	0 51
Cod Liver per gall.	3	6		4 6	2	6	4 4
Croton per oz.	o	ő		Ū Ö	ō	21	0 6
							23

1880.	1879.	1880.	1879.
Essential Oils: s. d. s. d.	s. d. s. d.	Oils, continued:- £ s. £ s.	£ s. £ s.
Almondper lb. 30 6 to 0 0 1	20 0 to 0 0 7 0 0 0	Body per tun 0 0 to 0 0	0 0 to 0 0
		**************************************	28 0 0 0
,, German ,, 12 0 0 0 Bergamot ,, 8 0 11 0	0 0 0 0	whale, southsea, pale , 28 0 0 0 yellow , 27 0 0 0	0.5 0
Cajeputper bottle 5 9 0 0	3 6 4 0	brown ,, 20 0 22 0	21 0 26 0
Carawayper lb. 6 0 8 0	0 0 0 0	East India, Fish , 0 0 0 0	0000
Cassia, 4 6 4 9	2 10 2 11	OLIVE, Galipoliper ton 0 0 0 0	0000
Cinnamonper oz. 4 6 0 0	4 0 5 0	Gioja, 41 0 0 0	0000
Cinnamon-leaf $0 1\frac{1}{2} \dots 0 3$ Citronelle $0 3\frac{1}{2} \dots 0 0$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Levant ,, 40 0 41 0	
Citronelle , 0 3½ 0 0 Clove , 7 6 0 0		Mogador, 0 0 0 0 Spanish, 41 0 42 0	100
Lavender Exot. per lb. 1 6 8 0	18 70	Spanish ,, 41 0 42 0 Sicily ,, 42 0 0 0	
Mitcham ,, 105 0 0 0	0 0 0 0	COCOANUT, Cochin ,, 35 0 36 10	
Lemon, 6 0 10 0	4 6 11 0	Ceylon ,, 32 10 34 0	36 0 37 0
Lemongrass per oz. 0 3 0 0	0 21 0 3	Mauritius ,, 33 10 0 0	38 0 0 0
Neroli , 7 0 10 3 Nutmeg , 0 31 0 5	6 0 . 9 6	GROUND NUT AND GINGELLY: Bombay 0 0 0 0	0000
Otto of Rosesper oz. 15 0 25 0	18 0 30 0	Madras	
Patchouli , 2 6 3 10	1 6 3 0	LINSEED 26 1) 26 17	
Peppermint:		RAPESEED, Englisb, pale 29 12/6 0 0	30 5 0 0
Americanper lb. 12 6 14 0	7 6 9 6	brown 27 10 27 12	
(H. G. Hotchkiss),, 14 9 0 0	0 0 0 0	Foreign, pale 0 0 0 0	
English ,, 16 0 0 0 Japan 10 0 13 0	21 0 23 0	brown 0 0 0 0 COTTONSEED 25 10 25 15	
Japan , 10 0 13 0 Rosemary , 1 6 2 9	2026	COTTON SEED	
Sassafras , 2 6 0 0	2 0 2 3	TALLOW 0 0 0 0	
Spearmint ,, 13 0 0 0	80 90	s. d. s. d.	s. d. s. d.
Thyme, 1 6 4 2	0000	TURPENTINE, American, cwt. 32 6 0	
Mace, expressedper oz. 0 0 0 0	0 5 0 6	French ,, 0 0 0 0	
OPIUM, Turkey per lb. 20 0 22 0	17 0 18 0	PETROLEUM, Crude 0 0 0 0 refined, per gall. 0 61 0 6	
inferior , 17 0 18 0	10 0 15 0	Spirit 0 6½ 0 7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
QUASSIA (bitterwood) perton 110 0 14) 0	100 0 130 0	SEEDS.	
RHUBARB, China, good and	20 40	CANARYper qr. 48 6 55 0	
fine	3 0 4 0	CARAWAY, English per cwt. 0 0 0 (0 0 0 0
Mid. to ord, 0 8 1 8 Dutch Trimmed, 0 0 0 0	0 3 2 3	German, &c 27 0 36 (14 0 00 0
ROOTS-Calumbapercwt. 87 6 100 0	25 0 50 0	CORIANDER 10 0 22 6 HEMPper qr. 30 0 40 6	
China	28 0 30 0	LINSEED English 60 0 68 (
Chirettaper lb. 0 0 0 0	0 21 0 31	Black Sea & Azof 52 6 0 (50 6 0 0
Galangalper cwt. 16 6 20 0	21 6 22 6	Calcutta ,, 52 9 0 (
Gentian, 16 0 20 0 Orris 16 0 22 6	18 0 20 0 20 0 45 0	Bombay ,, 53 6 0 (St. Petrsbrg. ,, 52 0 0 (
Orris, 16 0 22 6 Pellitory, 0 0 0 0	70 0 76 0	Mustard, brownper bsbl. 12 0 16	00.00
Pinkperlb. 0 8 1 3	1014	white ,, 5 0 10 (9 0 12 6
Rhatany, 0 5 0 6	0 2 0 5	POPPY, East India, per qr. 52 0 53 (52 6 53 0
Seneka, 2 4 2 6 Snake	1 9 1 10	SPICES.	
, , , , , , , , , , , , , , , , , , , ,		Cassia Lignea per cwt. 35 0 55	
EAFFBON, Valencia ,, 42 0 45 0 EALEP per cwt. 120 0 160 0	20 0 40 0	Vera ,, 30 0 36 (
SARSAPARILLA, Lima per lb. 0 5 0 6	0 4 . 0 5	Bnds ,, 55 0 56 CINNAMON, Ceylon:	57 0 58 0
Guayaquil, 1 0 1 2	1114	1st quality per lb. 1 1 2	3 1 0 3 4
Honduras , 1 2 1 8	1 1 1 4	2nd do , 0 10 1	6 011 24
Jamaica, 1 2 1 11 BASSAFRASpercwt. 3 0 3 9	1 6 111	3rd do ,, 0 9 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
BASSAFRAS per cwt. 3 0 3 9 SCAMMONY, Virgin per lb. 30 0 40 0	23 0 25 0		
second & ordinary 10 0 25 0	8 0 20 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
SENNA Bombay 0 Cl 0 2	$0 \ (\frac{1}{2} \ 0 \ 2\frac{1}{2}$		6 15 16
Tinnivelly , 0 2½ 0 9½	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Zanzibar, 1 0 1 (1 4 1 4
Alexandria , 0 4 2 6 SPERMACETI, refined , 1 3 0 0	1 3 0 0		90 0 200 0 50 0 80 0
American , 1 1½ 0 0	1 11 0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
BQUILLS ,, 0 1 0 24	0 3 0 5		16 6 17 (
GUMS. £ s. £ s.	£ s. £ s.	Malabar , 0 0 0 (0 0 0 0 0
Ammoniaci drop per cwt. 1 10 2 0	2 2 2 10	Cochin	0 33 0 120 0
Animi, fine washed ,, 18 0 20 0 sorts ,, 10 0 15 10	9 10 15 10	PEPPER, Blk, Malabar, per lb. 0 41 0 4 Singapore, 0 33 0	
ARABIC, pale picked ,, 2 10 . 3 0	3 0 3 10	White Tellicherry 0 0 0	0 10 1
srts.,md.to fin. 116 29	1 18 2 4	Cayenne ,, U 8 1	9 10 3
TUBELY, pick.gd.tofin. 6 10 10 0	6 5 9 10	MACE, 180 quanty ,, 1 0 2	$9 \mid 19 \cdot $
second & inf. ,, 2 10 5 0 sorts 2 6 3 0	3 5 6 0		
Assarctida,cm.tofin , 0 12 . 3 11	1 10 2 5		2 11 3
BENJAMIN, 1st & 2nd ,, 12 0 29 0	21 0 70 0	132 to 95 ,, ,, 2 0 2 8	1 10 2 1
s. d. s. d.	s. d. s. d.	PIMENTA 0 35 0 2	0 5 0
COPAL, Sierra Leone, per lb. 0 0 0 0 Manillaper cwt. 35 0 50 0	0 7½ 0 10 16 0 24 6	VARIOUS PRODUCTS.	
DAMMAR, pale 90 0 100 0	85 0 0 0	COCHINEAL—	
EUPHORBIUM ,, 0 0 0 0	9 10 15 0	Honduras, blackper lb. 0 0 0 (. 1
GALBANUM per lb. 0 6 1 2	0 0 0 0	,, silver, 0 0 0 (Mexican, black ,, 2 5 2 (
GAMBOGE, pckd.pipe per cwt. 250 0 320 0 GUAIACUM per lb. 0 9 2 6	20 0 255 0	, silver, 2 3 2 4	
KINOper cwt. 60 0 110 0	60 0 90 0	Teneriffe, black, 2 5 3	2 2 21
Kowrie, sorts 61 0 70 0	50 0 60 U	,, silver, 2 5 2 7 BOAP, Castile per cwt. 30 0 0	04 1
selected ,, 100 0 160 0	123 0 180 0	SOAP, Castileper cwt. 30 0 0 (SOY, Chinaper gall. 2 10 3 (
MASTIC, picked per lb. 3 0 4 6 MYRRH, gd. & fine per cwt. 170 0 200 0	2 6 3 0 150 0 250 0	TERRA JAPONICA—	
ord. to fair , 85 0 165 0	6) 0 250 0	Gambier per cwt. 16 9 17 (
OLIBANUM p. drop ,, 68 0 80 0	77 0 86 0	Free cubes ,, 23 0 25 (
amber & ylw. ,, 64 0 67 0	70 0 78 0	Cutch , 32 0 36 0 WAX, BEES, English , £0 0 £0 0	£0 0 0
SENEGAL , 57 6 60 0 SANDARAC , 80 0 115 0	50 0 60 0	Jamaica , 5 10 6 10	6 10 7
SHELLAC, Orange. , 115 0 . 130 0	55 0 88 0 74 0 88 0	East India 5 0 6) 555
Liver , 100 0 115 0	70 0 76 0	VEGETABLE, Japan ,, 2 13 2 15 WOOD, DYE, Barperton 7 0 7 16	
THUS, 16 0 18 0	20 0 21 6	Dunuil 10 0 40 4	00.0
TRAGACANTH, leaf ,, 240 0 400 0 in sorts ,, 40 0 210 0	260 0 370 0 70 0 190 0	Cam 20 0 27 (20 0 23
OILS. 40 0 210 0 £ s. £ s.		Fustic, Cuba 7 0 0 (808
SEAL, paleper tun 29 0 30 0	28 0 0 0	Jamaica, 5 10 6 0 Logwood, Campeachy, 9 0 9 16	
yellow to tinged . 24 10 . 28 0	25 0 27 0	Jamaica, 6 0 6 10	5 10 5
brown ,, 22 0 23 0	23 0 24 0	Linka, mrst phe , 10 0 10	11 0 12
EPERM., 70 0 0 0	55 0 0 0	RED SANDERS 6 10	5 10 5



109/10. Alpha .- The specimen you send is a fine sample of quillaia bark. our query reached us to) late for an answer last month.

A CINGALESE QUACK.

Mr. W. B. Hudson, Chemist, of Colombo, Ceylon, sends us the following ariosity cut from the Ceylon Observer of May 3, last:—

NOTICE.

Dr. Shaik Mustan Hadge, who previously advertised in local papers about e opening of a dispensary for the cure of leprosy, hrings the following for ueral information:—

Leprosy has five different formations:—(1) By the planet resembling a orpion: that is in Arabic called Za Zaul Gaib; it is said that there are ht heavenly heings named planets, who have power over the world, and cordingly, if a child would take his womb, meeting the above-named anet naturally, he gets leprosy on the 10th or 14th of his age; (2) hy ttening of a two-headed snake; (3) rat hite; (4) piles; (5) through mereal disease. This is according to the astronomy. First, should anydy eat his food or touch his spit will get leprosy.

Diet.—Fish, dried fish, and bringals, pumpkins, bitter goad, agate leaves, ead fruit, buffalo meat, pork, and liquor; these are all prohibited. Once ten days quarter measure of cow ghee to be used. Medicine must be been for 80 days consecutively; then will show a great deal of improvent. Within another six months names of cured patients will be shown.

at. Within another six months names of cureu patients with be shown-ralysis and consumption: medicine ready.

A d also one of the above patients, who was suffering very badly, unable rise from his bed, his legs were swollen like elephant's, with bloody eat, hands and legs were full of sores, and plastered. B tharms could tstretch, took more than 200 worms, thrown in a room next to the charm and this patient said that have how how tried by a fore principal. chen; and this patient said that he has been tried by a few principal ctors and several others of the island, and recommended his death; and further begged of me to give him my medicine, and promised to alvere his name. So, a patient of this state, after taking my medicine, within days walked from Wolfendahl Street to Kollupitiya, to my place, for dicine. I have given him medicine for 9) days for charity, and now all sorts are dried and fever left; he takes his bed with others, he is lost cured. If he takes medicine for a few days more, he will be perity cured. And now as he is unwilling to advertise his name, I put a pto his medicine, and hereinafter no medicine will he given to him hout payment. This patient's name has already heen advertised on reh I. All the facts are well known from the commencement to one J. G. F. Miranda, of Colombo.

Attendance will be charged, each vi it 7.50 rupees. Dispensary

I he closed on every Friday.

Vellewatta, Galle Road, 20 feet beyond Toll-gate.

TINCTURA ARSENICALIS.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

IR,-Amongst some experiments I was making a few weeks since, the owing formula for tincture arsenicalis suggested itself as a very great rovement upon the liquor arsenicalis of the B.P. ake

Arsenious acid .. lxxx. gr. Glycerine 3 iij. Proof spirit ad ..

issolve the arsenicum in the glycerine and add the proof spirit.

this means you have a tincture of arsenicalis of the same strength as liq. arsenicalis, which is perfectly stable, there is less escape of arsenifumes in dissolving the arsenicum, and in all respects you obtain a rior preparation.

Yours truly,

anley, June 3.

JOHN TIRRELL.

/112. X.Y.Z. asks can the widow of a man who died previous to 1868 n the register as a chemist and druggist, deal in poisons, conducting business herself, no qualified man being on the premises? If said w, previous to the passing of the Pharmacy Act (July 31, 1868) ally carried on business as a chemist and druggist, and can get a certie to that effect signed by a medical practitioner or magistrate, who can ly to the fact from his own knowledge, she is eligible for registration syment of a fee. The Registrar, 17 Bloomshury Squarc, W.C., will ly the necessary forms.

WEIGHTS AND MEASURES.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

t,-I trust to your usual generosity and sense of fairness to t me a little space in your journal concerning the Weights and ures Act.

ave often heard an expressive, though perhaps not the most refined erb, "the more stir, the more the stink."

wit seems to me that our all-wise fountain head, the Pharmaceutical ty, have been making a great stir in this matter, and left not a little for the poor chemists to get out of as best they can.

example, I will mention the result of a visit of mine to an inspector

with some weights and measures to be tested and stamped. A 20-onnee measure he could not stamp, because it was marked fl. and the symbol 3 instead of fluid ounce; next, a 4-drachm weight was objected to because nstead of being marked 3iv. it was 3ij. 3ij.; and I was told 36, 9, and 12 grain weights are perfectly useless, being illegal and not standard weights.

Now why, may I ask, is a 72-grain weight legal, yet the half, 36, not so? And lastly, all old weights, even if stamped, if not marked in accordance with the new regulations (for instance, grain weights must be marked in figures and not with dots on them), are useless, and lay you open to prosecution if found on your premises. Therefore, I advise chemists to throw all their old weights into their dusthole and buy new ones, which will be a matter of a few shillings to some and pounds to others, and which of course will be all profit, and console themselves at the same time, as the inspector tried to console me, that we have only our Society to thank for it.

I think the Act is a lot of buffoonery throughout, and to whomsoever we are indehted for it, whether the Pharmaceutical Society or the Board of Trade, from them we ought to he able justly to claim a thorough explanation of it. As the inspectors seem to know nothing about it, and when we are being constantly fined and put to inconvenience, I think the Society should do something to render an Act intelligible, which would be a dead letter so far as we are concerned if it were not for their stirring.

Yours, &c.,

67/112. The Patent Medicine Law.-II. writes: Suppose I advertise a mixture as II.'s mixture, and state on counter-bills what it will cure, but do not keep it made up, but prepare it each time I sell it, and do not attach statement to it beyond a direction label, is it necessary to put the Government stamp oo it?-The medicine would be liable to stampduty on the ground that a proprietary interest was claimed in it, and alsohecause it was recommended as a care for something. Whether kept in. stock or prepared as required could not, we think, make any difference.

Our Students' Column.-Mr. R. Wright, of Burton Crescent, W.C., who took the first prize last month, writes as follows :- As I do not intend (at any rate at present) to compete again, I think it only right to bear testimony to the great value of the "Students' Corner" to anyone commencing the study of analytical chemistry. For it cannot be doubted that to be a competent analyst it is necessary not only to have a perfect understanding of every reaction taking place—which of course implies a thoroug h acquaintance with chemical principles-hut also to know how far the knowledge possessed can be applied in special cases. Besides this, it is necessary to cultivate hahits of order and method, and, more important still, of cleanliness. 1 think it will be universally acknowledged that all the above can only be developed by practice. Let a student have these, together with industry, perseverance, common sense, and, above all, experience, and there is hope for him. For myself, I knew nothing, or next to nothing, of analysis until I commenced taking your powders, and hence I may say it has been the means of my laying the foundation of whatever success I may subsequently obtain in analytical work.

DENTAL REGISTRATION.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

SIR,-I enclose you a circular letter I have received fro n the Honorary Secretary of the British Dental Association, pointing to the fact that when I was registered under the Dentists Act 1 was only an assistant, and not on the Chemists and Druggists' Register. He says: "Under these circumstances your registration in the Dentists' Register is, in the opinion of counsel, a clear violation of the provisions of the Dentists Act. Tho Representative Board, therefore, suggest that you should, in writing, request the Registrar to remove your name from the Dentists' Register. Should you not see fit to follow this recommendation within 14 days from the date of this letter the Board will feel hound to hring the case before the General Council, the possible result of which proceeding will he that your name will he erased from the register, and that you and the witness to your declaration are liable to be proceeded against under the appended section of the Dentists Act, which was prominently printed upon your declaration paper."

Previous to July, 1878, I practised dentistry (such as is usual with a chemist's husiness), I being theu an assistant. I filled in my application form, "As in practice before July, 1378, in conjunction with pharmacy." You will see they wish to make out that this was a misrepresentation. Will you kindly inform me if they can erase my name from the register, and also what steps should I take in the matter. I have no douht hundreds are threatened in the same manner.

ASSISTANT.

[We have printed the above as a specimen of more than a dozen letters which we have received on this subject from various parts of tho country. The Secretary of the British Dental Association has been sending round a lithographed circular letter to all persons registered as in practice before July, 1878, in conjunction with pharmacy, whose names do not appear on the register of chemists and druggists. He suggests that the resipient should, in writing, request the Registrar to remove his name from the Dentists' Register within 14 days. If not, the Association will bring the case before the Medical Council, and possibly the name will then be erased, and "you and the witness to your declaration are liable to be procecded against under" section 35 of the Dentists Act, which provides against registration procured by a false or fraudulent representation, and are "liable to be imprisoned for any term not exceeding 12 months."

No one familiar with the circumstances can read this circular without some indignatiou. There is not a word in it which is untrue, but it is likely, and of course intended, to produce an impression which it does not seem to us it is justifiable to produce. Iu the first place, the British Deutal Association have no official Standing in relation to the Dentists Act whatever. No doubt they can bring anybody's case before the General Council; so might any other association or individual. They have, it is true, obtained a counsel's opinion to the effect that a person who registered as having practised dentistry in conjunction with pharmacy, if he were not at the time a registered chemist and druggist, was technically ineligible for dental registration (see Chemist and Druggist, November, 1879). This opinion may or may not be sustained. It was certainly stupid of the framers of the Act, if they meant to limit the application of this clause to persons on the Pharmaceutical Register, net to say so in so many words. Acts of Parliament are expected to be precise in their language. As a matter of fact, these assistants who were registered were engaged in the practice of dentistry in conjunction with that of pharmacy. According to the simple words of the Act they had a right to register, No one has yet said they have not a right to register, except this counsel engaged by the British Deutal Association. Suppose, however, that the Medical Council should be advised to take a similar view. Why, then, the name would be erased, and the man who paid his fee ou the faith of a dozen plain and simple words in an Act of Parliament would have spent his money uselessly. He would be very much inclined to think that he had beeu trapped. But, then, in addition to losing his mouey, he is liable, say this Association, to be proceeded against for false and fraudulent representation. Of course, we are all liable to be proceeded against for any crime known to legal lore, but it is absurd to suppose that any sane judge would permit any man to be convicted ou such a charge as is here suggested. Now, we particularly ask all those persons affected to follow their own judgment on this matter. We cannot say definitely what the Dental Association, the Medical Council, or the Courts of Law might decide, and our opinion, outside of the facts which we have always put prominently forward, is worthless; but we, if in like case, would maintain to the end the simple justice of our demand for registration on the words of the Act of Parliament. If the Medical Council should decide against this view, we would submit with a protest, for the results involved would not be worth the expense of a legal contest with such a body; and we should await with the utmost calmness the 12 months' imprisonment applicable to false or fraudulent representation, but in no sense to a case of this kind .- ED. C. & D.]

112/72. A. S .- If there had been any book on the manufacture of artists' celours, it would almost certainly have been mentioned in Holman Hunt's lecture before the Society of Arts. You can obtain the number (price 6d.) of the Journal of the Society of Arts containing that lecture by applying at the Society's House, John Street, Adelphi. The dictionaries of chemistry, arts, &c., such as Muspratt's, Ure's, and Spons', give some information on the subject.

THE CARRIAGE OF GOODS.

TO THE EDITOR OF " THE CHEMIST AND DRUGGIST."

EIR,-The Nottingham and Notts Chemists' Association have had for some time past the question of present rates charged upon carriage of goods under consideration, and a committee was appointed some two months since to take what steps they thought best with a view to the alleviation of this injustice.

If you, sir, or any of your readers can offer any suggestious upon this subject, I am sure the Nottingham Chemists' Association will deem it a favour, and will give such suggestions their earnest consideration.

We, as provincial chemists, feel this as a hardship, and especially docs it affect us in the matter of returned empties.

For some time past, as you are well aware, the rates of carriage have been gradually increasing, until, I believe, they have now reached the highest rate allowed by Government to be charged. The rate now charged upon drugs in hampers from London (and everything, whether only heavy drugs or expensive ones in bottles, are all classed alike) is at the present time 2s. 6d. per cwt., and an extra charge of 6d. for all parcels between 1 cwt. and 500 lbs. to Nottingham; and I believe the same charge is made to Bradford, a town situated nearly 100 miles farther North. This, if true, seems also an injustice. A chemist rarely requires parcels weighing less thau 56 lbs, or more than 500 lbs. This extra charge falls upon us in almost

With respect to returned empties, the injustice is even greater still. I presume there are many chemists who remember the time when empties were returned free; the charge from Nottingham to Loudon is now 1s. 3d.

Now, considering the small average breakages which occur per year in comparison with the very little risk the railway companie have to run, we think the above rates are much too high.

Any course of action or suggestion which you or any of your readers might suggest will have the utmost consideration from our committee. I am, sir,

Yours obediently, C. W. WARRINER, Hon. Sec. Nottingham and Notts Chemists' Association.

135 Union Road, Nottingham, June 8.

[This subject is an important one, and if the grievance is felt in other parts of the country, we shall be glad to receive and publish facts and sug gestions. Perhaps some united course of action can be decided upon. Th Trade Association would serve its provincial subscribers well by taking u this matter.-ED. C. & D.1

THE POLITICAL ATTITUDE OF THE TRADING CLASSES.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

- "YET who that looks to History's damning leaf, Where Whig and Tory, thief opposed to thief, Ou either side in lofty shame are seen, While Honour's form hangs crucified between, Oh England! who such rival knaves can see, But mourns the fate of Industry and 'Thee!'"
- "The madness of the many for the gain of the few."
- "So they march in percessions, an' git up hooraws, An' tramp thru the mud fer the good o' the cause, An' think they're a kind o' fulfillin' the prophecies, Wen they're on'y jest changiu' the holders of offices; Ware A sot afore, B is comf'tably seated, One humbug's victor'ous, an' t'other defeated. Each bonnable rogue 'll git jest wut he axes, An' tradesmen-their reg'lar soft sodder an' taxes."

SIR,-The struggle between the two traditional gangs of political part sans being now decided, I should feel greatly obliged to any enthusiast Liberal or Conservative if he could satisfy my desire to ascertain the gai or loss to the tradesman by the victory or defeat of either party.

As long as the trading and industrious classes remain such blind unreason ing animals as to stultify and disenfranchise themselves by sending to Par liament only the professional and financial classes to make laws for an rule over them, without any proper and effectual control, so long will the be fleeced and plundered and thrust into servitude and subjection.

On both sides of the House, no matter which party is in power, the sear arc mouopolised by closely-associated specimens of Crœsus Moneybag Shark Sharerigger, Colonel Jingo, and Blatant Buz'uz, Q.C., and tradesmo are actually led to believe that they are likely to be benefited by the di interested legislation of these nohle-minded gentlemen, when from one e of the House to the other not a single faithful advocate of the tradesman interests is to be found.

Let us cease this supine indifference and look after our own intere-We are now being approached with a variety of requests and solicitation to speud our time and money upon this Liberal Society or that Conserv tive Association, "Member's subscription, one guinea," &c. Let us tr all such proposals with the ridicule they merit, and proceed to organise o selves, consolidate our voting power in every constituency of the Uni Kingdom, and proclaim our entire independence of the so-called Conser tive and Liberal parties. No one can deay that, in many closely-contes elections, the tradesmen's united vote would decide the day. Then v not organise, and make our will a power, not only to be felt but respect If we, as men of education and intelligence, are not equal to this i simple act of self-defence, then let us remain what we have been, the to and flunkeys of those interests of knavery and slavery that assume govern and direct us.

In the first place, let us have an efficiently and faithfully conducted p organ devoted to the advancement of the social, political, legal, and c mercial interests of "The Tradesman," not in any way to interfere v the objects of the existing denominational organs of the various t sections, but to unite the whole body of retail tradesmen into a v political power, and to avoid the necessity of the tradesman being comp to obtain his information and his political creed from, and to give sup to, the press organs of the present (and past) political parties. Woul pay? If faithfully conducted by private enterprise it must pay, be "Limited Liability" had any connection with it, the wealthy and kna classes, whose interests it would not promote, would wreck it as soc they could "get at it."

In the meantime let our policy invariably be to harass those who op us, first, by continuing to vote against every government, no matt which party composed. This action on our part will assist to cause frequent elections, and will, therefore, relieve the honourable candidat the present political formation of some of their ill-gotten gains. Secon let us by all means assist in the benevolent and meritorious labor educating the industrious classes, not noisily and publicly, but in cor sation and wherever we may have the opportunity, and by circulhandbills advocating our political views and satirising the tyrannical hypocritical classes.

Of course the interests now in power would rake up any quantity of hetorical and sophistical dust to throw in our eyes, but we have sufficient cliable information to enable us to decide what shall be our course of ction, and to allow no appeal from our decision. We have experienced he folly of placing the financial and professional classes always in unstricted power: let us profit by that experience, and let them. Then the oke of knavery and tyranny may be destroyed and the tradesman emanciated from his present degraded position.

I am, sir, yours, &c.,

NEMESIS.

P.S.—For a characteristic specimen of legislation, observe the attempt smuggle the recent Bill of Sale trick up the hack-stairs. By, and in, hose interest? A limited liability co-operative company never has any sets in its books, and, with a secret bill of sale npon its stock and tures, would be exactly in the position so much desired by some of its vn promoters.

[The tradesmen did give legislators a taste of their influence in the late ection in regard to the Civil Service Stores. In London especially Civil Servant" was about the most libellous epithet that could be rown at a candidate. We should be delighted to see a more general iton of the trading classes.—Ed. C. & D.]

31/112. Carbo.—McDougall's Sheep-wash.—The patent for this mposition was granted in 1860, so that it expired in 1874. McDougall st claimed the exclusive right to the use of carbolic acid for destroying rmin in sheep or preventing their attacks, but in 1864 he filed a distinct, relinquishing this part of the patent and claiming only the appliation of alkalies and tallow, or other saponifiable substances in combination with carbolic acid.

110/63. Herb Bitters.—J. M. P.—You certainly did not explain your reirements so clearly in your last letter. Perhaps a reader may be able to pply you with a formula for making "coucentrated bitters for the immeate production of herb beer" put up in 6d. bottles; a tablespoonful makes gallon of beer, and chiretta is believed to be the basis of the exaration.

4/112. J. W. S.—We hope to be able to reply to your inquiries more ly next month. We have written to the Board of Inland Revenue, but we not yet received a reply.

16/111. Inquisitor.—A course of Wills's postal system will keep you at tematic work, and get you in good training for the examinations, but I will most likely need a month or two in a school afterwards in order be brought in good condition to the starting post.

CHEMISTS AND PATENT MEDICINES.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

IR,-The present mode of conducting business and the foolish and rielding competition in the matter of patents have now become serious stions, and will in a great measure undermine what has hitherto been a fitable and honourable profession. The questions, I graut, are most cult ones, but if the Pharmaceutical Society is of any use to the trade, and ecially to the young men who are now being trained and educated for it, from whom the said society is drawing a large revenue, they will do ething to remedy the present state of things, i.e., to prevent grocers, erdashers, and others from dealing in medicines. What I would sugis, that the Pharmaceutical Society bring in during the present session hall Bill to confine the sale of medicines under whatever name they bear to registered chemists and druggists, and this should apply to all icioes taken internally ouly-those for ontward application should be wed to he sold by anyone outside the trade; and in order to compensate Exchequer for the loss in revenue, the licenco for the sale of patent icines should be raised to 40s. throughout the kingdom. This, I think, ld be generally acceptable to the trade, and place the sale of all medis in the hands of properly-qualified men.

will soon be too late to deal with the matter, and it behoves the sists of England to unite together and bring back within the pre-ed limit of the present law the control and sale of all medicines, and e Pbarmaceutical Society of England cares for the future welfare of rade they will take action in the matter and co-operate with all those are outside their walls.

Sleaford.

GEO. WESTON.

bis suggestion at any rate has the recommendation of simplicity.—1 C. & D.]

A WORD TO THE GENTEEL.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

;—I have observed a deal of correspondence of late in your columns lsewhere about what the writers are pleased to term "professional ette," and wherein dark things have heen hinted at concerning int obemists who "turn their shops into fancy warehouses" and ine stores." Now it seems to me that these philosophers have one and it sight of, or, at any rate, ignored, the fact that chemists, as a rule—st, honest ones—go into husiness for the purpose of getting a living anintaining their wives and families when they have any.

posing, having got out of my depth one day, I find myself being ad rapidly down by the current towards destruction, shall not I, think

you, lay hold of the tail of the first dog that comes swimming by to keep myself afloat, though all the fine people looking ou dryshod from the shore laugh at me for doing it?

I am in husiness as a retail chemist. I find that trade enough in physic cannot be done to support me. What, then, shall I not be a fool, not to say a rogue, if I refrain to keep myself afloat by means of any dog's tail that comes in my way, provided it is an honest dog?

My advice to those superfine gentry who profess to think otherwise is that they do each and every one of them take a private house in a highly-respectable street, well away from any market, railway station, or vulgar concern of that sort with a smack of vulgar trade about it, and that they do each of them put up a wire blind with "Dispensary"—I beg pardon, "Pharmacy"—inscribed thereon in most respectable gill letters, and a brass door-plate with "Mr. So-and-so, Pharmacien" thereon engraved in highly professional style; and, furthermore, that they do each and every one of them ensconce themselves behind the aforesaid wire bliuds and wait for prescriptions (I do not know the Latin word for prescriptions, or else I would put it). I promise them they shall be quite welcome to keep the professional etiquette and respectability to themselves, as long as they leave us outsiders all the trade.

In my poor opinion the only professional etiquette worth a rush is that which would make you too proud to do a dirty or dishonourable action—make you feel above giving short weight or selling an inferior article—make you too gentlemanly to be uncivil to a customer because he wears a ragged coat and has only a copper to spend—too unagnanimous to be ill-tempered to him when he comes in the shape of a little child, and soils the plate-glass show-case with his dirty little paws as he peers at you over the counter, and, finally, too Christianlike to hully him when he calls you up at night just as you are dropping off into your first nap, and requests you to put up a pennyworth of ipecacuanha wine for his child who has the croup.

There is a godlike dignity about honest labour. I say godlike advisedly, for was not, and is not, the Creator the first and greatest worker, and are not His creatures, down to the tipiest animalcula, all workers in their way? hut so-called professional dignity, except in the direction I have indicated, is only a delusion and a snare, an ignis fatuus that will lure a man on to the Slough of Despond, and land his family in a workhouse.

Yours obedieutly,

J. R.—Glycerole of Lead, or glyceriuum plumbi, is made like liquor plumbi subacetatis P.B., substituting glycerine for water, and heating it in an oil-bath. It should be filtered while quite hot.

CARTES DE VISITE.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

SIR,—Having lately heen simply done by a photo sent by an applicant for our situation, we think it only due to our contrives to waru them against a similar transaction. The case is this. After several letters passing between the applicant and ourselves the agreement was concluded, and in due time a young man presented himself as much like the photo seut as chalk is like cheese; indeed, we could not believe our eyes, and the result proved how we had been taken in, his services being found so valuable that after two days he was paid a month's salary and told to go.

It afterwards came to our hearing that the photo sent, as stated by the party, was taken 18 months since, and represented a young man standing hetween 5 feet 6 inches and 5 feet 9 inches, the alive individual being under 5 feet. We might add that when the photo was seut on approval it was requested back per return.

Yours truly,

"VICTIMS."

[We are puzzled to understand how the carte de visite represented the man's height to such a nicety.—Ep. C. & D]

11/151. Assistant.—Your sauce containing apples, which continues fermeuting even after heing well boiled, would probably be made to keep by the addition of 10 grains salicylic or 4 grains of benzoic acid to each pint. It is not certain, however, that this will stop the fermentation which has commenced, though it would almost certainly have prevented its appearance.

WEIGHTS AND MEASURES ACT, 1878.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

SIB,—I shall be greatly obliged if you will allow me space to impress on members of the trade, through the medium of your pages, the advice you have on so many seasonable opportunities given them as to the desirability of their obtaining, as far as possible, weights and measures conforming to the requirements of this Act of Parliament.

Stamped apothecaries' weights and measures legalised for use throughout the United Kiugdom may now be procured through the usual channels for the supply of weights and measures used by chamists, and I cannot too strongly urge all members of the trade to at once provide themselves with those stamped weights and measures, as by so doing they adopt a cheap, and at the same time the most complete, safeguard against annoyance and expense to which they otherwise would be liable in the event of a prosecution being brought against them, for the possession of an unstamped weight

or measure renders the owner liable to a penalty of 51., although the weight or measure may be otherwise accurate.

An erroneous impression appears to be gaining ground that weights and measures stamped in one district will not be acknowledged by the authorities residing in other districts. The provisions of the statute are very clear on this point, the 45th section being as follows:--"A weight or measure duly stamped by an inspector under this Act shall be a legal weight or measure throughout the United Kingdom, unless found to be false or unjust, and shall not be liable to be restamped because used in any place other than that in which it was originally stamped."

The Board of Trade was empowered by the Act to adopt standards for apothecaries' weights and measures, such standards to be approved by Her Majesty in Council. The standards for these weights and measures were issued to certain Metropolitan districts on August 14, 1879. On May 19 last several London chemists were summoned to appear at the Southwark Police Court for having in their possession inaccurate apothecaries' weights, and nominal fines were in each case inflicted. The inspector who prosecuted acknowledged in course of cross-examination that no notice had been given to chemists residing in his district that he had been supplied with standards for apothecaries' weights.

Inspectors appointed under the statute, residing in country districts, will, if not already supplied with these standards, in all probability receive them from the Board of Trade at an early date, when wholcsale prosecutions may result if some steps are not taken by chemists themselves either to obtain new weights and measures duly stamped or to ascertain when the inspector for their district obtains standards, and forthwith take their old weights and measures to him for verification.

It cannot be too widely known that the Board of Trade has no power to issue instructions to local authorities as to the carrying out of this Act, the appointment of inspector and the duty of testing and stamping weights and measures resting with justices and town councils. It would be only courteous treatment to members of the trade for inspectors to give them notice when they receive their standards, and to allow some little time in which apothecarle,' weights and measures may be verified before enforcing the penal clauses of the statute.

The chief inspector for the Birmingham district has promised, in response to a representation from the President of this Association, to give such notice to all chemists residing in the district, and to allow two or three months in which their weights and measures may be verified. It is very desirable-and such a course would probably obviate a considerable amount of vexation and expense to the trade-that one cr two leading chemists in each district should call upon the inspector appointed for the district and request him to give a similar undertaking, and, failing a satisfactory reply, to theu proceed to the local authorities, who wou'd doubtless take care that no injustice should be done by precipitate action on the part of the in-pector. W. F. HAYDON.

Secretary to the Chemists and Druggists' Trade Association of Great Brita'n.

Offices of the Association, 23 Burlington Chambers, New Street, Birmiugham, June 9.

39/112. Apprenticeship.-X. L. proposes a curious question: "A man takes an appreutice in the usual way, and before the expiration of the term of apprenticeship, sells his business and removes to another part of the country. Is the apprentice bound by law to follow his master, if so desired?" We cannot discover any authoritative reply to this question. On the one hand it may be said that the apprentice has been bound to a certain person, regardless of the place where such person may remove to. On the other hand it is quite possible that the place of business of the master may have greatly influenced an apprentice or his guardians, and removal to another locality may be very objectionable. Perhaps some reader is able to give us au illustrative case decisive of the question.

111/41. Indiarubber Stamps.-J. R. Y. would be glad to know what the material of these stamps consists of, if rubber alone is used, and how manipulated; if a composition, what it is. This, of course, is the manufacturer's secret, but some of our readers may be able to throw light on it. We have never heard that fumes of burning sulphur were used for preventing infusions turning bad. Bisulphite of lime is, or has been, largely used by brewers to keep beer from turning sour, and is now to a large extent replaced by salieylic acid. The best and almost the only unobjectionable way to keep infusions is, while still hot, to fill small bottles to the brim, and tie each one over with a piece of bladder or gut skin. When the liquid is quite cold a slight vacuum will be produced, and the bladder will be concave. If it remains flat the bladder has not been made air tight.

113/30. Nil Desperandum would be glad of a formula for indiarubber

5/158. Scolus.-Unguentum Altheæ was official in the London Pharmacopœia, 1746. Its formula was :-

Oil with mucilage 2 1hs. Yellow wax .. ½ lb. • • ٠.. ٠. Resin 4 02. ٠. Venice turpentine .. ½ oz.

Oleum cum Mucilaginibus, in the same Pharmacopæia, was thus made:

> Fresh marshmallow root Linseed .. 3 oz. • • Fenugreek seed .. ٠. .. ٠. .. 3 oz. Water 2 lbs. Olive oil .. 4 lbs.

Boil the bruised root and seeds in the water for half-an-hour, add the oil, and boil till the water is dissipated, strain and press.

We do not know of a formula for "Syr. chlorid. calc'i"; perhaps some of our readers can supply one.

CRICKET MATCHES.

Baiss Brothers v. Wright, Layman & Umney.

LAST year we reported a cricket match between the sportsmen engaged in the houses of Baiss Brothers and Maw, Son & Thompson. We are glad to hear that these interchemical contests have been renewed this year, and hope we may receive reports of other matches both from London and the country.

The first was played at the Grayhound Grounds, Dulwich on Saturday, May 29, the houses of Baiss Brothers and Wright, Layman & Umney being the competitors. The former won the toss, and sent their opponents to the wickets. The bowling of Mr. Welch and the general fielding of Messrs. Baiss's team kept the scoring down, and Messrs. Wright's effort only reached 58. Their eagerness to make runs cost them several wickets. Messrs. Baiss's team, with one player short, made up 88, and the match was decided by the single innings. Mr. D. Womersley contributed more than half the runs made from the bat. All the wickets were bowled, Mr. Attwood taking 6 and Mr. Whitehead 3. The fielding of Messrs. Wright's team was capable of improvement. The players and others connected with the firms took supper together, and afterwards passed an hour or two in pleasant company with Mr. C. F. Wright in the chair. Appended is the score: -

Wright, Layman & Umney. C. F. Wright, b Welch .. E. Whitehead, b Welch H. C. Wright, l b w, b Welch 10 J. Attwood, run out ٠. - Renant, run out
- Pledger, b Welch
S. F. Wright, run out 0 . . — Spiers, run out ..
J. Smith, b Welch.. . . Brodrick, c Womersley, b Welch 0 .. Barnard, not out Byes 6, 1 byes ', w 2, n b 1 10 58

Baiss Brothers. W. Standring, b Attwood .. 14 .. 39 J. H. Peckover, b Attwood D. Womersley, b Whitehead N. Womersley, b Attwood F. Nash, b Attwood S. C. Welch, b Whitehead A. Baiss, b Attwood S. S. Baiss, b Whitehead.. H. Standring, not ont W. E. Peckover, b Attwood J. Watson, absent .. Bycs 18, 1 b 1

BAISS BROS. v. BURGOYNE, BURBIDGES, CYRIAX & FARRIER.

THE victorious firm were soon afterwards challenged by Burgoyne, Burbidges, Cyriax & Farrier. This contest cam off on Saturday last, the 12th inst., on the Teddingto Cricket Ground. On this occasion the conquering colour were lowered after a close match. Both sides made exactl the same number of runs from the bat, but the Colema Streeters made 6 more than their opponents in byes. Suppe was taken at the Clarence Hotel, Teddington, Mr. Arnol Baiss presiding.

Baiss Brothers.	
W. Standring, c Thomas, b Bew	22
N. Womersley, b Bew	5
D. Womersley, b Bew	15
J. H. Peckover, b Helps	10
S. E. Welch, c Bagallay, b Helps	6
F. Nash, l b w, b Helps	4
S. S. Baiss, st Bew, b Thomas	9
H. Standring, b Helps	3
A. Baiss, st Bew, b Howell	4
J. Watkins, run ont	0
J. Watson, not out	0
b 1, w I	2
	80
	00

Burgoyne, Burbidges, Cyriax & Furriers.
runners.
W. Howell, c D. Womersley,
b Peckover
W. Bain, run out
W. Helps, b Welch
G. Bew, st W. Standring, b D.
Womersley
W. Thomas, st W. Standring,
b Welch
W. Wellington, b Peckover
J. H. D. Wickham, b Welch
A. Bagallay, b Welch
D. L. Jones, b Welch
R. E. Taylor, b Peckover
F. H. Goddard, not out
b 4, 1 b 3, w 1

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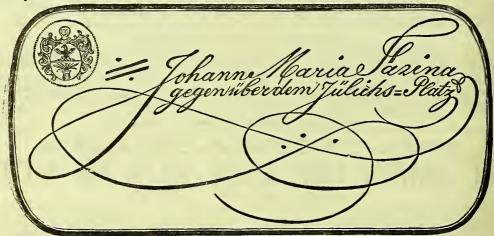


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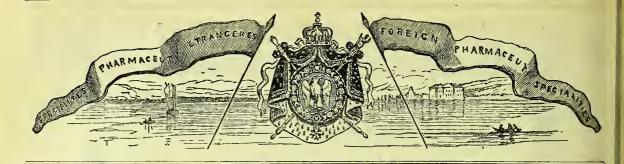
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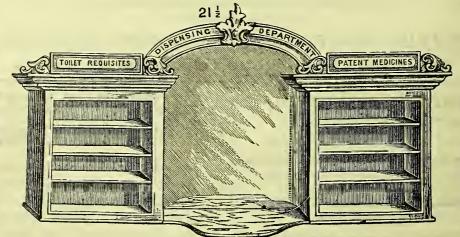
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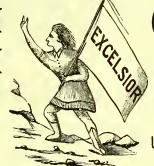
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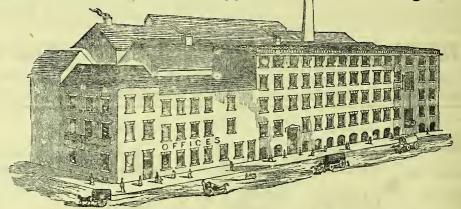
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ı	,,	Assafætidæ Co., P.B	6	5	13. ,,	Hydrarg., P.B.		9/	4/
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ı		Prepared with Virgin Scammony.	-01		19.	Scillæ Co		5/	4/
В		N.B Unless distinctly ordered " Prepared wit	b Vincin	Scammony	" Noe 8 an	d 9 " Propaged with Parin Samme	mu" are alrea	ue cont	
	_	2. D. United distinctly of a few Treparen with	it reryen	Stummong	, 1100.0 un	w b 1 repaired wath thesen become	my wie wiew	goochice	

Non-Officinal Formulæ.

_	140n-Omemai L'ornidie.						
_		Price per Pound, Coated. Uncoated		FORM N.—Pil. Tussi., No. 2.		Price per	r Pound. Uncoated
	Pil. Aperiens.	Coated.	Uncoated	1 01011	P. Ipecac. P. Scillæ P. Capsici.	Coated.	Uncoated
- 1	Ext. Aloes Aq 9j				P. Opii P.G. Ammon. Ext. Conii.	11/	10/
_	Pulv. Cambog 4 grs.			FORM	O.—Pil. Tussi., No. 3.	1	-01
_	7.1			I OIUII	Pulv. Ipecac. Co. P. Gum. Ammon.		
- 1	Colomoth					7/	6/
	TT1., C1.1.1			TODM	Scillæ Sapo, Hysp.	4/	O/
				FORM	P.—Pil. Tussi., No. 4.		
	" Sapo. Hysp. 4 "	C.I	21		P. Ipecac. Co. P. Gum Ammon.		
	Gingerin 2 " Ft. Pıl. xij.	6/	5/		Pulv. Scillæ Pulv. Sapo.	101	151
	Each Pill contains Calomel $\frac{1}{3}$ gr.			Tonie	Antim. Tart. Morphia Acet.	16/	15/
	Pil. Aperiens, as No. 20, with 1 gr.			FORM	Q.—Castor Oil Pills.	5/	4/
	Calomel in each Pill	6/	5/		A Mild Aperient for Females.		
	-Pil. Aperiens, as No. 20, sine Calomel	1 6/ 7/	5/ 6/ 6/	FORM	R Dandelion Pills.		
1	Pil. Aperiens, No. 20, half size				Ext. Aloes Aquos P. Zingib.		
i					Ext. Taraxaci Sapo. Mollis.	9/	5/
2	-Pil. Aperiens, No. 21, half size	4/	01	FORM	S.—Pil. Anthem. Co.		
-	Pil. Aperiens, Hospital.				Pulv. Rhæi Pulv. Zingib.		
	Ext. Aloes Aq gr. ij.				Aloes Socot, Ext. Anthem.		
	Pulv. Cambogiæ ,, ss.				Ol. Carui.	9/	8/
	" Jalapæ " i.			FORM	T.—Pil. Cochiæ Co.		
	" Colocynth " ss.				Pulv. Aloes Cape. P. Cambogiæ.		
	Hyd. Subchlor ,, ss.				P. Jalapæ P. Sapo. P. Zingib.	i	
	Pulv. Saponis ,, ss.				Ol. Caryoph.	5/	4/
	Ol. Menth. Pip ,, 1-16th.	21		FORM	UPil. Tonic.	'	'
70	M. Caryoph , 1/8 Ft. Pil. i. I.—Pil. Aperiens Fort. Same as No. 257, except that each 5 gr. Pill contains 1 gr. Calomel	6/	5/		Ferri Sulph. Ext. Gentian.		
T.					Pulv. Zingib.	5/	4/
				FORM	V.—Pil. Prandii, No. 1.	-1	,
					Ext. Aloes Aq. Ext. Gentian.		
F	RM T Dil American Brit				Ext. Anthem. P. Capsici.	9/	8/
- 7	M J.—Pil. Aperiens Mit.			FORM	W.—Pil. Prandii, No. 2.	"	-1
	Same as above, omitting the Calomel	6/	5/	LOIDI	Ext. Aloes Aguos.		
F	RM K.—Pil. Antibilious.				Pil. Rhæi Co. Ext. Gentian.	7/	6/
	Pil. Hydr. Ext. Coloc. Co.			TODM	X.—Pil. pro Diarrhœa.	''	91
	Ext. Hyosogrami	11/	10/	I OIUII	Acid. Tannic. Camphor.		
F	L.—Pil. Antibil. c. Podophyl.	11/	10/			9/	8/
	Pil. Rhæi Co. Ext. Hyoscyamı.			TODAT	Capsicum Pulv. Opii.	3/	0/
	Podophyllin on timesch Dill	11/	101	FORM	Y.—Pil. pro Gout.		
F	Podophyllin gr. $\frac{1}{4}$ in each Pill. Pil. Tussi., No. 1.	11/	10/		Ext. Colchici Ammon, Carb.	71	c1
	1 1 USSI. 1 10. 1.			TODES	Pulv. Guaiac. Resin. P. Opii.	7/	6/
	Pil. Scillæ Co. Pulv. Opii.			F.OKM	Z.—Pil. Diuretic.		
	Antim. Tart. P. Cambog. Ol. Anisi.	01	0.1		Pulv. Digitalis.	01	=1
1	-All the shove Formula can be had oit	9/	8/		P. Scillæ Pil. Hydrarg.	6/	5/
- 4	-All the chore Tlamenter 1 1 1 1 1 1		4 ~		43-6		L - 4 - 4

-All the above Formulæ can be had either in 4 or 5 grain Pills; the former are sent where the size is not stated.

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IMPORTANT CAUTIONS

Fom Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD, and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that VICE-CHANCELLOR SIK W. FAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'I J. Collis Browne was unloubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as described in the Hospital.'
The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the twould have given Dr. Browne protection.'
LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that the country was not a contrain the Defendant from miner.

h application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrenting the decision of the Vice-Chancellor.

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepre-

tion of the decision of Vice-Chancellor Wood.

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant is the said testimonial as referring to his medicine.

The Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne red to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published

te Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the in itor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation;

theless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now nbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the rnment Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts alysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis E vne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they it riably supply Dr. J. Collis Browne's:—

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Gale & Co., London. Giles & Son, Clifton. Cork. Goulding, Messrs. Gratton & Co., Grimwade, Ridley, Belfast. London. Grindley & Son, Chester. Hearon, Squire & Francis, Lendon. Hodgkinson, Tonge & Stead, Hopkins & Williams ,, Exeter. Hunt & Co., Hunt, A., & Co., Johnson, J. H. & S., Langton, W., & Co., Liverpool. London. Lynch & Co., Mander, Weaver, Marsden & Sons, Wolverhampton. London. Maw & Son, Meggeson & Co. Mackay, John, Morson, T, & Son, Edinburgh. London.

Newbery & Sons, London. Oldham, G., & Co., Dublin. Parsons & Richardson, Leicester. Peake, Allen & Co., Dublin. Raimes & Co., Liverpool. Raimes & Co., York. Raimes, Blanshards & Co., Edinburgh. Sang & Barker, London. Sanger, J., & Sons, Sim, James, & Co., Aberdeen. Smeeton, W., Leeds. Southall & Co., Birmingham. Sutton, W., & Co. London. Tomlinson, Hayward & Co., Lincola. Treacher, Hodgkinson & Co., Westrup, J. B., Kensington. Westwood & Hopkins, Lincoin. Woolley, James, Manchester. Coventry. Wyleys & Brown, Yates & Co., London.

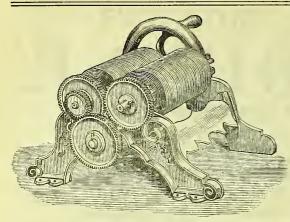
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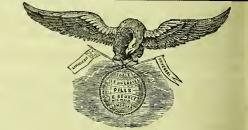
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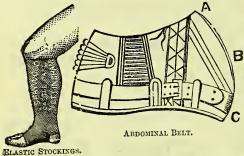
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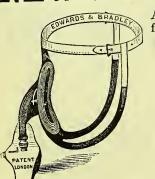
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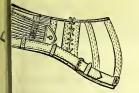
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Fig. 1. Patent Single.

FIG. 2. Patent Double.



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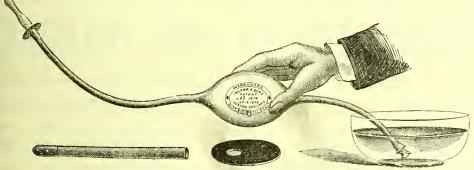
Fig. 4. Common Double.

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MANAGING DIRECTOR: -THEODORE ROBERT ANCELL, Chemist.

SOLICITOR: E CARTWRIGHT STEAVENSON, Esq., 72 and 73 Gracechurch Street, E.C.

SECRETARY (pro. tem.):—HERBERT FORGE, Esq.

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The factory will be under the direction of Mr. Theodore R. Ancell, Chemist (Promoter and late Managing Director the Chemists' Aerated and Mineral Waters Association, Limited), the Waters manufactured by which Company der his management have given universal satisfaction, and have been highly commended both by the Lancet and edical Times and Gazette. Shareholders in this Company will therefore be able to obtain Waters of the same quality supplied by the Chemists' Association, at prices that will enable them to compete with local manufacturers.

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Shares in Co-operative Associations are amongst the most remunerative investments of the day. The principle of operation applied to this business must prove profitable, as the usual heavy expenses in obtaining orders and delivery not incurred. The Directors therefore feel that they can recommend this Company's Shares as a safe and lucrative estment, and they trust to be in a position to commence supplying in July, when they have every confidence in being Il supported in carrying out the object of the Association, which is to supply high-class Waters of absolute purity such low prices as Co-operation alone can render possible.

By the Articles of Association, Theodore Robert Ancell is to be Managing Director of the Company, and is to be d £300 a year, which is to be increased at the rate of £50 per annum for every five per cent. dividend declared, and his services in promoting the Company is to receive 250 fully paid up shares when a dividend of ten per cent. is lared, and 250 more fully paid up shares when a dividend of fifteen per cent. is declared.

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TO THE DIRECTORS OF THE

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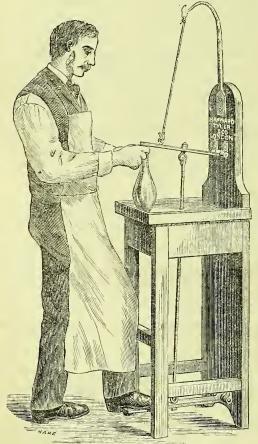
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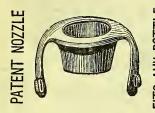
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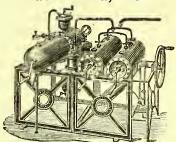




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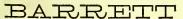
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W. J. B. & Co. caution the Trade against the so-called Soluble Essences now so frequently offered for sale, which are nothing more than mere Tinctures; and although offered at lower prices, cost 5 or 6 times as much in use, whist imparting a strong medicated flavour. W. J. B. & Co. further beg to inform their friends that Aerated Drinks as Pale Ale, Horeohund Beer, &c .- made from their Soluble Essences are exempt from Excise regulations.

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PROTECTED BY ROYAL LETTERS PATENT,

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ESSRS, W. J. BUSH & CO., of Artillery Lane, Bishopsgate, London, Manufacturing Chemists, hereby give notice that they are sole proprietors of the patent for making the above Gum Extract, and of the r cipe from which and the process by which the said extract is prepared. Messrs. W. J. Bush & Co. hereby caution all persons against making the said Gum Extract or any imitation thereof. And they also caution all persons from selling or using the said Gum Extract or any imitation thereof other than that made or supplied by them or their authorised agents. The only genuine Gum Extract is that prepared by Messrs. W. J. Bush & Co., 20 to 23 Artillery Lane, Bishopsgate, London, and the Works, Ash Grove, Hackney, and sold in bottles and in tins, price 2s. 6d. per lb., bearing their labels, and issued from their warehouses.

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Delicious, Sparkling, Phosphated Iron Beverage.—Non-Alcoholic.— A Brain and Nerve Tonic, and Nutrient Tonic Beverage.

RECOMMENDED FACULTY.

From "The British Medical Journal," August 30, 1879.

Among the various medicinal and other exhibits at the recent meeting of the British Medical Association at Cork, to some of which we shall hereafter direct attention, there was one which, to our own judgment, bore away the palm. We refer to the aërated and phosphorated iron beverage which Messrs. Evans & Co. of Wrexham manufacture for David Johnson, Esq., F.C.S., the patentee.

We had ample opportunities of testing its refreshing and invigorating qualities during our sojourn in the fair city of the extreme south-west; and we can confidently recommend it to the attention of physicians and others who are occasionally at a loss what to direct their patients to take when parched by feverish thirst or depressed by exhausting ailments—notably in cases where alcoholic stimulants would be prejudicial. We feel that it would be found exceedingly useful in mitigating the discomfort ofttimes experienced by those suffering from the thirst, loss of appetite, and general madaise connected with the last stage of phthisis and chronic bronchitis.

We would also, from our observations and experience, advise its introduction into clubs, taverns, and places of public amuse ment, where it would judiciously supersede vinous and alcoholic stimulants, seeing that it contains, as its name implies, lifegiving ingredients in a form easily assimilated.

Every Chemist that has introduced ZOEDONE has found a large and regularly increasing sale for it. It is put up in Champagne Bottles, and there is no trouble with empties, as the bottles are included in the price. Customers supplied with Pamphlets for distribution; also a special Circular for medical men stating the formulæ.

Orders should be anticipated by one week.

Report on the ZOEDONE of Messrs. Richard Evans & Co., of Wrexham.

The Analytical Sanitary Institution, 54 Holborn Viaduct, London, E.C., Sept. 21, 1878. I have carefully examined the new Aërated Mineral Water manufactured by Messrs. R. Evans & Co., and to which the have given the name of "ZOEDONE." I find the statements made respecting its composition to be fully borne out by the analyst The "ZOEDONE" is a bright, sparkling, and very pleasant beverage, quite free from medicinal taste; indeed, it forms a magreeable and elegant vehicle for the administration of the Phosphates of Lime and Iron which it contains, and which a ARTHUR HILL HASSALL, M.D., London, in a complete state of solution. Author of "Food, its Adulterations, and the Methods of their Detection."

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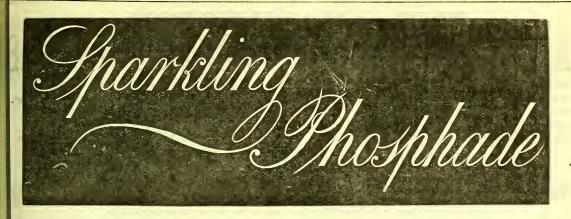
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Campagne Bottles, per dozen, 5s. 6d.; Half ditto, 3s. 4d.; Seltzer ditto, 2s. 10d.;

Delivered free in London by our own vans.

A scount of 2d per dozen for Cash on delivery, and an additional discount of 2d per dozen off quantities of not less than 1 gross; 1s. per dozen charged and allowed for bottles.

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Alkalinity of the Bourne Artesian Well Water, combined with Artificial Salts, produces one of the best articles made. This Seltzer Water is well adapted for invalids for its purity.

When taken at dinner-time, it promotes digestion.

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15 grs., 20 grs., & 30 grs.
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LEMONADE
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GINGER BEER
AERATED WATER
without alkali
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LITHIA WITH POTASS WATER, &c., &c., Supplied in ordinary and half-sized bottles and in syphons.

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JAMAICA GINGER

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ighly adapted for the manufacture of Transparent Aërated Waters, and for all Dietetic, Medicinal, and Pharmaceutical Purposes. THE COST in the manufacture of GINGER BEER, &c., is a little under $2\frac{3}{4}d$. per dozen bottles.

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This Essence, which is an addition of Vanilla, Lemon, and other flavours to the above, is strongly recommended for the nufacture of Ginger Beer, Wines, &c., to which it imparts with the GINGER a PECULIARLY FINE FRUITY FLAVOUR AROMA. THE COST of this Essence in the manufacture of Ginger Beer, &c., is a little under 3d. per dozen bottles.

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Makes this favourite summer beverage, Lemon Beer, A 4d, packet is sufficient for three and a half dozen half-pint bottles. It is alike suitable for the healthy and the convalescent.

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Produces Ginger Beer, Sparkling and Effervescing; its fresh Lemon and Ginger Flavour is unsurpassed; it is used by thousands, and preferred by all; it is soon in perfection, and is made quicker than by any other method known. A packet will make two gallons.



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All Colours in 1, 2, 4, and 7 lbs.

SIZES. ALL OF OF ALL SORTS INTINS VARNISHES

An Advertisement having been inserted in the "Lancet" by Messrs, Struve & Co., of Brighton, of HUNYADI JÁNOS VATER (since stated to be manufactured by them), THE APOLLINARIS COMPANY, LIMITED, the sole nporters of the GENUINE Hunyadi János Water and the Proprietors of the Trade Mark, deem it right to inform the Trade at, to avoid litigation, Messrs. Struve & Co. have withdrawn such advertisement.

Traders are cautioned that, on any infringement of the APOLLINARIS COMPANY'S TRADE MARK rights

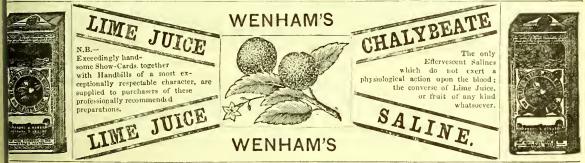
HUNYADI JANOS, legal proceedings will be immediately instituted.

An Advertisement having been inserted in "The Chemist and Druggist.", by Mr. H. Bollman Condy, offering for sale Condy's Patent Oxygenated Concentrated HUNYADI JANOS," and THE APOLLINARIS OMPANY, LIMITED (the Sole Importers of the GENUINE Hunyadi János Water, and the Proprietors of the Trade ark), having threatened to take legal proceedings against Mr. Condy, Mr. Condy has expressed his intention no longer to sell advertise the said preparation.

Traders are cautioned that, on any infringement of the APOLLINARIS COMPANY'S TRADE MARK

this in HUNYADI JANOS, legal proceedings will be immediately instituted.

IMPORTANT DESIDERATA ARE SUPPLIED IN



In BOTTLES, 2s. 6d. and 4s. 6d. each; CASES, 21s.

WHEELER & CO., LONDON, and SOUTHEND-ON-SEA.

Messrs. Wheeler & Co. have produced a REMARKABLY HANDSOME SHOW-CARD, representing a package of WENHAM'S LIME-JUICE SALINE, on a gold ground, with a border of lime fruit and blossoms."—CHEMIST AND DRUGGIST, Trade Notes, July, 1879.

AMPLOUGH'S EFFERVESCING PYRETIC SALINE.



HAVE IT IN YOUR HOUSES AND TRAVELS, USING NO OTHER SALINE; it gives instant relief in Headaches, Sea or Bilious Siekness, and quickly curres the worst form of Eruptive or Skin Complaints. The various diseases arising from Constipation, the Liver, or Blood Impurities, Inoculation, the results of breathing air infected with Fevers, Measles, or Smallpox, are frequently prevented and certainly eured by its use.

certainly eured by its use.

The sale of these Saline Salts having greatly increased during the past few years, I beg most cordially to thank those who sell and recommend the same, and also to inform intending dealers that they will find Messrs.

BARCLAY, EDWARDS, MAW, NEWBERY, SANGER, SUTTON, and the Wholesale Houses generally, ready to supply their wants. This Advertisement is found needful in consequence of the trouble, cost, and inconvenience in the keeping and collection of numerous small accounts. Note.—The Name, Trade Mark, Labels, Wrappers, &c., are all Registered and Entered at Stationers' Hall.

113 HOLBORN HILL, LONDON, E.C.

ICIAL NOTICE.—Medical Gentlemen having fever eases, and desirous of trying the Saline, can have a single bottle at wholesale prices by sending their eards.



atent Effervescing Citrate of Magnesia Drops. Patent Effervescing Lemon Kali Drops. Patent Effervescing Lime Juice Drops. Patent Effervescing Seidlitz Drops.

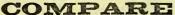
IE MOST DELICIOUS, COOLING, AND REFRESHING SWEETS IN THE WORLD.

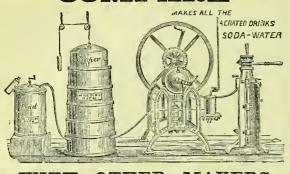
Especially suitable for Hot Climates. An immense sale for them wherever introduced.

AMPLES AND PRICES APPLICATION.

Manufactured only by

JAMES GREENWOOD, Wholesale BACUP, LANCASHIRE, ENGLAND.





J.G. B.

WITH OTHER MAKERS.

N. G. WILCOCKS'

SODA WATER & LEMONADE MACHINES.

THE Opinions and Testimonials which have been published must convince everyone that Wilcocks' Machinery is quite satisfactory. Hundreds of factories are fitted or supplied with these Machines, and testimonials extending over many years are so numerous that though several hundreds have been printed, a very much larger number has been received.

N. G. WILCOCKS has had a long practical experience, and gives his undivided attention to this branch of his business. Every portion of the Machines he makes has had his most diligent study for years past, and his inventions and designs have been approved and used by some of the most eminent Aërated Water Makers in the kingdom. All his customers, British or foreign, may be assured of his personal attention to their orders.

All Wilcocks' Machines are made on the continuous process direct-action Bramah principle; the solid plunger works through the bottom of the pump in a ring or collar of cupped leather; the valve body is at the top of the pump. Constant and energetic endeavours have been given to make these Machines the most perfect in existence, and these endeavours have been successful. Mr. Wilcocks can introduce his customers to factories where they can see his Machines in full and profitable operation, and so have an opportunity of judging for themselves.

Wilcocks' "Favourite" Machine is really the favourite among makers; most intending manufacturers purchase one of the four sizes in which it is made. The full-sized Machine, with dial and water gauges, and gas work, as exhibited at the recent Mineral Water Trade Exhibition, Agricultural Hall, London, sells at £42 10s. Hundreds of these have been sold during the last few years, and they are generally esteemed first-class moderate priced Machines.

Wilcocks' Bottling Apparatus is the result of prolonged study; it is the simplest in use, and is consequently the most

easily repaired, while it is quite as efficient as the most expensive.

The "Eclipse Filling Machine," at £4 10s., can be so confidently recommended that the money will be returned in any case where it fails to give satisfaction. It is hoped that its very low price will not raise a prejudice against it.

A simple contrivance for Syruping has just been perfected by Mr. Wilcocks, and particulars will appear in future announcements.

His Soda Water Machine makes 200 dozen bottles a day with hand power; more can be turned out if a small motor, such as a steam, air, or water engine, be employed. Any filling apparatus, patent or not, for patent or corked bottles can be attached to this machine.

Mr. Wilcocks has very complete plant, tools, and stock, and employs a staff of highly skilled and experienced workmen. Every part of his machines is made by his own workmen from the best materials. The copper gun-metal and English tin are of the best obtainable quality; sound, well-seasoned oak is used for the cooperage.

By thus making even the earliest stages of the machines, all intermediate profits are avoided, and the quality of the material and the soundness, accuracy, and finish of the workmanship can be guaranteed. Every machine is carefully tested by actual use before it is sent out. Although Wilcocks' Machinery is low in price, it is confidently claimed that it will be found equal in every respect to the best in the market.

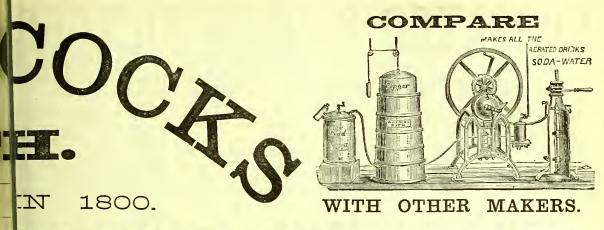
Every process of manufacture can be seen in active operation at Bath.

Mr. Wilcocks has had long experience, not only in machines but in every other requirement of the Aërated Water Trade and he is prepared to supply formulæ for bottled drinks, ful directions for manufacture, plans and estimates for complet factories, and all information necessary to ensure success in this lucrative business.

ALL ORDERS ARE PROMPTLY EXECUTED.

Address.

N. G. WILCOCKS, SODA WATER MACHINIST, BATH



THE ECLIPSE FILLING MACHINE,

TO FILL PATENT BOTTLES.

£4:10:0.

Vill fill Codd's, Lamont's, Barrett & Elers',

AND OTHER PATENT STOPPER BOTTLES.

l the Patent Bottles brought to Wilcocks' Stand at the MINERAL ATER TRADES SHOW, in October last, were filled with this Machine, in the presence of the Mineral Water Makers.

COMPARE

The following Prices with those of other Makers.

A A	full-size Machine, to make 200 dozen per day by hand power to make 100 dozen per day by hand power to make 100 dozen per day by hand power and Bolling Rack £40 0 0
V	maller Machine, to make 60 dozen per day by hand power (included with each.) £30 0 0 ring Stand or Tying Stool £1 10 0 tle-Washing Apparatus for Power £1 5 0
fr a:	A printed Book of Testimonials and opinions from buyers and users of N. G. W.'s make Soda Water Machine Engines and crs, also new Illustrated Descriptive Catalogue, sent post free to any part of the globe upon application. A number of the above Machines can be seen in different stages of progress at this Manufactory. Inspection, and a visit an intending purchaser, is invited to examine the weight, strength, size, capacity, quality, finish, and price in this Machine, he testimonials from large numbers to whom this Machine has been supplied in years past. If required, a written guarantee en to a purchaser with each Machine.
	omplete Machine, with Vertical Boiler and Horizontal Steam Engine, to make 300 dozen per day, with all Mountings £91 10 0 omplete Machine, with Vertical Boiler and Horizontal Steam Engine, to make 2,000 dozen per day, with all Mountings, ready for work £150 10 0
	ATHANIEL GEORGE WILCOCKS, ENGINEER, BATH.

SILICATED CARBON FILTERS.

SYPHON FILTERS FOR TRAVELLERS.

By means of these Filters pure and perfectly wholesome water may be drunk from any pond or stream by simply immersing the Filter therein and drawing the water through the tube by suction.

Each of these port-



No. 20.

placing it in a vessel of water, then drawing the water by the month, and allowing the flexible tube to hang over the side below the Filter. When once set in operation their action is con-

used as a Syphon by

able Filters may be tinuous.

They are readily cleaned from sedimentary matter by merely blowing through the tube, and brushing the surface of the filtering medium.

mtering medium.								
A Pocket Filter, 21 inches diameter, in porcelain, with glass		d.						
mouthpiece, in decorated metal box	2	6						
B.—Ditto, 3½ inches diameter, in best stoneware	5	0						
Ditto, ,, with silver-plated tap	7	0						
C Emigrant's, 5 inches diameter, with silver-plated tap								
G Pocket Filter, for carrying over shoulder, as supplied to the								
Forces in Abyssinia and in Zululand, and to the Ashantee								
Expedition	3	6						
H Ditto, nickel-plated, designed by Major Fraser, R.E., and specially								
recommended by the Horse Guards for Officers' kits	5	0						

TABLE FILTER, NO. 24.

Made of stout glass, in 1, 2, and 3 pint sizes, the filtering medium being securely fitted into the bell-funnel, so that it is not liable to become loose, or to allow unfiltered water



to pass. This Filter is peculiarly suited for the Bedroom and for Table use, affording a ready and simplements of obtaining a any time freshly-purified water.

PRICES. O, 2s. 6d.; A, 4s.; B, 5s. 6d.

POROUS TERRA COTTA FILTER, NO. 29

Shape of this Filter as Fig. No. 24.
O, 2s. 6d.; A, 4s.; B, 5s. 6d.

SILICATED CARBON BLOCKS.

2in., 1s. 6d.; 2\frac{1}{4}in., 2s. 6d.; 2\frac{3}{4}in., 3s.; 3\frac{1}{3}in., 4s.; 4\frac{3}{4}in., 5s. 6d. 6s SPECIAL QUOTATIONS FOR QUANTITIES.

PRIZE FILTER,

This Filter is constructed in the form and colour of an Etruscan Vase, having inside it a movable pan, into which the Silicated Carbon filtering medium is fitted.



PATTERN NO. 23

The exterior is made of Porous Ware, which acts with remarkable power as a Refrigerator, keeping the water deliciously cool. Capacity, about Two Gallons.

PRICE, WITH SILVER-PLATED TAP, £3 10s.

THE SILICATED CARE OF PURIFYING PILTER DAPLIES A PAIENT S

DINING-ROOM FILTER, No. 22.

MADE IN MARBLED CHINA.

Size A holds about two gallons; size B, five gallons.

			_								
					Р	RIC	ES.				
	A	••	••	••					••		35s.
	В	••				••	••		0-0	0-0	80s.
	A,	with	Ice						••	••	421.
						w Pa		i.)			
	В,	with	Ice						••	••	100s.
_						w Pa					77.4.1

Refreshment Rooms, Luncheon Bars, &c.

REFRIGERATOR FILTER, NO. 25.

Made in Porous Terra-Cotta Ware.

Which acts with remarkable power as a cooler, and renders this Filter invaluable, especially in Tropical Climates,

AFFORDING A COOL DRAUGHT OF PURE WATER.

Specially adapted for Tropical Climates.



PORTABLE FILTER, No. 34, for Travellers at Hotels, Families at the Seaside, Pic-nics, &c. 1 in Marbled Porcelain, with Cover. Can be placed in a jug, decanter, or other vessel. Price 7s. 6d. each.

SILICATED CARBON FILTER CO., CHURCH ROAD, BATTERSEA, LONDO

POCKET FILTER.

SHILLINGS each. Retailed' at

Designed by MAJOR FRASER. of the DYAL ENGINEERS, especially

for Officers' Kits. Veighs only 8 ounces.



No. 20 H.

It has been approved by the Authorities at the Horse Guards, and has been largely used in the Afghan and Zulu Expeditions.

Sample sent free by Post on receipt of FOUR SHILLINGS.

DOMESTIC FILTER, NO. 27.

Made in cream-coloured Stoneware, fitted with the Silicated Carbon Media, complete with Cover and Silver-plated Tap. All sizes of this pattern can now be had with Patent Ice Compartment, which renders this Filter the most perfect of

		PRI	CES.	With Ice Compartment			
No. 0, ca	pacity	1 gall.	10s. 6d.		_		
No. A,	,,	1,,	14s. 6d.		17s. 6d.		
No. B,	99	2 ,,	21s. 0d.	:	25s. 0d.		
No. C,	99	4 ,,	32s. 0d.		36s. 0d.		
No. D,	,,	6 ,,	42s. 0d.		18s. 0d.		
No. E,	"	8 ,,	52s. 0d.		30s. 0d.		
No. F.	., 1	2	70s. 0d.	1	30s. 0d.		

Refrigerators.

STONEWARE FILTER, NO. 28

No House should be considered as thoroughly furnished until it is supplied with one or more good Filters.

No Water should be used for Drinking or Cooking without being Filtered.

This Filter is made of a New Ornamental Stoneware, similar in shape to the Domestic Filter, and of two-gallon capacity. When arranged in a Hall or Conservatory, side by side with evergreens, the effect is very pleasing.

Price, with Silver-plated Tap, 30s.



MAIN SUPPLY FILTER.

SPECIALLY ADAPTED FOR ons, Schools, Hospitals, Public tutions, Breweries, Distilleries, Soda Water Manufactories,

Dye Works, And other Establishments where large quantities of

PURE WATER

Are required.

findinary Sizes kept in Stock are as follows:-1-inch, 11-inch pipe £15 15s. 2-inch pipe





This Filter is extremely simple in construction, and can be either connected with a Cistern or attached to the Main Service Pipe. It requires no attention beyond an occasional opening of the Cleansing Tap, and will deliver a supply of purified water at a rate of 50 to 1,000 gallons per hour, according to size.

Special Contracts entered into for Large Works, Institutions, &c., &c.,

PURIFYING THE WHOLE OF THE WATER SUPPLY OF A BUILDING BEFORE USE. Ensuring Rapid and Perfect Filtration, at either High or Low Pressure.

UATED CARBON FILTER CO., CHURCH ROAD, BATTERSEA, LONDON. PARIS: 131 Boulevard Sebastopol.

NEW YORK: 194 William Street (H. R. Mensing, Agent). [AMBURG: 9 Deichstrasse (Joseph Schmutzer & Co., Agents).

NELSON'S PURE BEEF TEA.

SOLD IN HALF-PINT PACKETS.

THE LANCET says:—"This is an ingenious and excellent preparation. It dissolves readily in warm water, keeps for an indefinite length of time, and is very portable. Its flavour is all that could be desired. The article includes not only those constituents of the meat which are soluble in hot or cold water, but also much of the fibrin and the whole of the albumen."

THE MEDICAL PRESS says:—"It is one of the best articles of the class we have ever examined."

THE MEDICAL TIMES says:—"A decidedly valuable acquisition; contains all the constituents of meat; no hesitation in strongly recommending it."

Each packet bears the Signature—



NELSON'S SOUPS

Beef with Peas and Vegetables.

SOLD IN 11 PINT PACKETS.

Miss Mary Hooper, Authoress of "Little Dinners," says:-

"I have tried your Beef Tea and Soup, and have found them excellent; indeed, in my opinion, they are by far the best things of the kind ever before the public. The Soup is excellent in flavour, and is good nourisbment. It is very nice, and i most useful for strengthening and flavouring household soup or broth. It is, besides, so cheap that it cannot fail to be appreciated by all classes of the community, and it will be of great use to charitable people, as it will enable them readily to supply, at a small cost, a good, warm, nourishing meal."

Samples and Prices on application to the Manufacturers,

GEORGE NELSON, DALE & CO.

14 DOWGATE HILL, LONDON, E.C.

DELECTABLE JUJUBES, VOICE JUJUBES,

GLYCERINE AND CHLORODYNE JUJUBES,

MEDICATED AND HIGH-CLASS LOZENGES

LIME. FRUIT TABLETS, EVERTON TOFFEE,

ACID DROPS, and Best Quality BOILED SUGARS of every kind.

FRAGRANT BOUQUET LOZENGES, 300 in an ounce, have an immense sale.

GIBSON'S (ORIGINAL) CHLORODYNE LOZENGES.

SUGAR WORM CAKES; keep in any climate; suitable for either Children or Adul

ROBERT GIBSON, CARLTON WORKS, HULME, MANCHESTER, And 1 AUSTRALIAN AVENUE, LONDON.

Price Lists sent on application. Our Goods can be bought through any Wholesale House in London.

Gold Medal, Paris Exhibition.

FRY'S GOCOA EXTRACT,

IN PACKETS AND TINS.

Pure Cocoa only, with the superfluous oil extracted.

It is strongly recommended to all who appreciate the full flavour and fine aroma of Cocoa.

"It is strictly pure, and well manufactured in every way."—W. W. STODDART, F.I.C, F.C.S., City Analyst, Bristol.

"If properly prepared, there is no nicer or more wholesome preparation of Cocoa."—Food, Water, and Air, Edited by Dr. HASSALL.

J. S. FRY & SONS, BRISTOL & LONDON.

TRY ALSO

FRY'S CARACAS COCOA.—"A delicious preparation."

A CUP OF DELICIOUS

INVIGORATING COFFE

IN PERFECTION, by using

SYMINGTON'S ESSENCE OF COFFEI

OR ESSENCE OF COFFEE AND CHICORY.

These Preparations are specially recommended as Uni Wholesome, and Economic Dietetic Beverages, possessing Coffee aroma, but free from the TREACLY TASTE and BU FLAVOUR always complained of in other such Essences.

FLAVOUR always complained of in other such Essences.

London Agents, W. & C. Volckman, F. Newbery & S.
Barclay & Sons, and Maw, Son & Thompson.

THOS. SYMINGTON & CO., Chemis, BEAVERBANK WORKS, EDINBURGH.

DR. RIDGE'S PATENT COOKED FOOD DELICIOUS PAGE 1000 FOOD

FOR INFANTS AND INVALIDS.

Chemists should keep this celebrated article in stock, as it meets with a ready and rapid sale.

MANUFACTURED ONLY BY THE SOLE PROPRIETORS—

RIDGE & CO., Royal Food Mills, LONDON, ENGLAND.

ESTLE'S MILK FOOD.

For Infants, Children, and Invalids.

London Depot-7 BARBICAN, E.C.

ESTLE'S MILK FOOD is prepared at Vevey, Switzerland, from the pure milk of Alpine fed cows, the finest wheaten flour gar, combined in exact proportions to imitate closely the natural food for infants. It is thoroughly cooked, and reduced to a fine powder, perfectly soluble in water, requires only the simple addition of water

to prepare it for use—in this respect having the advantage over all other foods.

NESTLE'S MILK FOOD is highly recommended by the best medical authorities in all parts of the globe as a perfect diet. Nestle's is the original and genuine Milk

Food or Powder.

NESTLE'S MILK FOOD is put up in tins, packed in lined cases specially for the export trade. Is highly concentrated and in a perfectly dry state. Will keep good in any climate.

Our Wholesale Agents at any port will pack and ship the Food to or for any part of the world.

lesale Depot: HENRI NESTLE, 7 BARBICAN, LONDON





CAUTION—Be very careful to see that the words "F. & C. Hancock's Patent, Dudley" are stamped on each Machine.

ILLUSTRATED SHEETS SENT ON APPLICATION TO

F. & C. HANCOCK, Engineers, DUDLEY, WORCESTERSHIRE.

THE "DESIDERATUM" MIXING MACHINE.

BRACHER'S PATENT.



FOR

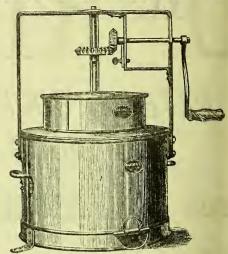
MIXING

ALL

Descriptions

OF

POWDERS.



Nos. V. and VI.

Nos. I. to IVa.

These Machines are admirably adapted for mixing all kinds of powders, heavy or light, in the shortest possible time, thereby superseding to a great extent the use of the Pestle and Mortar, and supply a long-felt want amongst Chemists and Druggists, Grocers, Confectioners, Drysalters, Colour Merchants, and Manufacturers.

and Manufacturers.

They are durable, easily cleaned, portable, require no fixing (except in the ease of large sizes), can be worked either with or without the cover, and are, without doubt, the best and cheapest Mixing Machines ever invented.

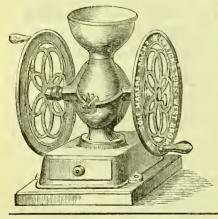
Every Retail Chemist and Druggist, Grocer and Confectioner, should possess one of these little Machines, as the small ontlay would be soon repaid in the saving of time and trouble, indeed it would searcely be thought possible that the articles could be so thoroughly blended in such an ineredibly short time.

The Nos. 3, 4, and 4a are for mixing Baking Powder, Coffee and Chibory, Sherbet, Lemon Kali, &c., &c., and will blend from 1 lb. to 500 bs. per hour. The large sizes are used by Wholesale Druggists, Confectioners, Drysalters, Sherbet and Lemon Kali Mannfacturers, and all who have large quantities to mix

See the Chemist and Druggist of March 15, 1879; also the Grocer and Old Trade Review of April 12, 1879.

Further particulars on application to the Manufacturer,

P. H. BRACHER, 77 HIGH STREET, WINCANTON.



AMERICAN DRUG & SPICE MILL

Advantages-

The cutters or grinders never wear out. Cutters or Grinders can be cleaned and refixed in one minute, thus any quantity of different article can be ground without fear of intermixture.

Price No. 4a Mill, 70'-

Price No. 2a Mill, 26/-

3a ,, 50|- | ,, ,, 1a ,, American Tincture Presses, 8|-, 12|-

Larger size if required.

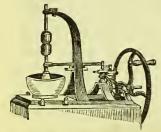
See Pharmaceutical Journal, November 17, 1877, page 399.

SOLE AGENT,

221, 223, 226, 232 St. John Street, Clerkenwell.

221, 223, 220, 232 St. Juill Street, Gerkenweil.

GOODALL'S PATENT GRINDING AND LEVIGATING MACHINE



"These machines have for many years proved most serviceable on a large and sn scale for Grinding, Levigating, and Mixing Powders, Pill Masses, Paints, &c." I' I harmacewical Journal, June, 1856, p. 535; and July, 1856, p. 33.

HONOURABLE MENTION CLASS 2, 7, & INTERNATIONAL EXHIBITION, 1862.

Particulars and Testimonials on Application to the Inventor and Manufactu

H. GOODALL, DERBY.

A Machine to fix on Counter, with a 13-inch Wedgwood Mortar, Price £7; or with changing rot motion, £8 10s.

SYMINGTON'S

"EDINBURGH"

COFFEE AND MILK

A New Preparation which, in itself, contains every essential r producing a cup of delicious, invigorating, and fineavoured Coffee.

The experience gained by T. S. in the manufacture of his w well-known Essences of Coffee has enabled him so to nserve the properties of the Coffee that, though combined ith Condensed Milk, it still retains the full strength and oma of freshly-roasted Coffee—a result hitherto unattained.

HOS. SYMINGTON & CO., Chemists, BEAVERBANK WORKS, EDINBURGH.

CHEMISTS' TEA AGENCY. ROKEN-LEAF TEA, 1s. 8d. per 1b.

Money-saving Tea, absolutely pure, in half-pound packets 10d. The all leaf from fine India and China Teas, stronger, richer, and cheaper an any whole-leaf tea. Wholesale to Dealers and Sellers and Agents. Ibs. sent free to any railway station in the kingdom.—WALKER & ALRYMPLE. Warehonses-154 and 155 Whitechapel Road, don. P.O.O. payable at Head Office. Bankers—The National Procial Bank of England. N.B.—Samples posted free.

ACKET TEA AGENCY,

Agents Wanted. Commission Liberal. Quality Guaranteed.

RETAIL PRICES FROM 1/10 to 3/4 PER LB.

APPLY TO

DHNSON, JOHNSON & CO.,

WHOLESALE TEA DEALERS,

50 Southwark Bridge Road, London.

Established nearly Quarter of a Century.

wards of Five Thousand Agents now Sell these Celebrated Teas.

SPONGE.

PETERSON & CO., Importers.

66 SOUTH JOHN STREET.

LIVERPOOL.

r Home, Foreign, and Colonial Markets.
Wholesale only.

HENRI'S TARAXACUM, or Dandelion Coffee.

Is the Best. In Tins only.

HENRI'S Homœopathic Tea.

The only Homosopathic Tea in Packets.

Henri's HomœopathicCoffee

The only Homœopathic Coffee in Tins.

HENRI'S Homæopathic Cocoa

A PURE EXTRACT of COCOA.

The only TRUE Homeopathic Cocoa.

NO FAT. NO STARCH, NO SUGAR.
In Tins.

Sole Importers and Wholesale Agents-

WEBBER & CO.,

33 TRINITY SQUARE, TOWER HILL,

LONDON.

TERMS ON APPLICATION.

INDEX TO ADVERTISEMENTS,

See Pages 35 & 36.

Lails of Inj ction granted
t /.-C. MALINS
w be found in
hemist and
ggist," Febry 15, 1877,
page 76.



Wholesale Price Lists, Opinions of the Press, and full information will at all times be given direct, or through the Patent Medicins

Houses.

For Prices of

WM. SCHWEITZER'S

DANDELION COFFEE. DANDELION COCOA. SEA SALT. FLY PAPERS.

MISS PIKE'S

INSECT KILLER.

FIT POWDERS.

APPLY TO THE PROPRIETORS.

ALLEN PEARCE & CO.,

BRISTOL.

MUSTARD.

Genuine Qualities

Are made from the finest mustard seeds only. Their compounds, as manufactured for upwards of a century, are guaranteed free from all ingredients imparting spurious heat, and are therefore equally suitable for both table and medical purposes.

Undertake not to supply Co-operative Stores.

6 Broken Wharf, Upper Thames St., London.

LAZENBY & SON'S PICKLES,

Sauces, and Condiments,-E. LAZENBY & SON (6 Edwards Street, Portman Square), Sole Proprietors of the Celebrated Receipts, and Manufacturers of the Pickles, Sauces, and Condiments so long and favourably distingisuhed by their name, beg to remind the Public that every article prepared by them is guaranteed as entirely unadulterated. Manufactory, - 18 Trinity Street, London, S.E.

HARVEY'S SAUCE.—CAUTION—The

admirers of this Celebrated Sauce are particularly requested to observe that each bottle prepared by E. LAZENBY & SON bears the label used so many years, signed "ELIZABETH LAZENBY."

PRIZE SEVEN MEDALS AWARDED.

GOODALL'S

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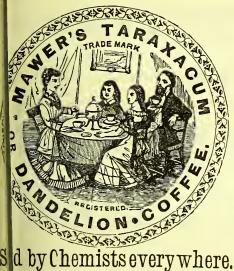
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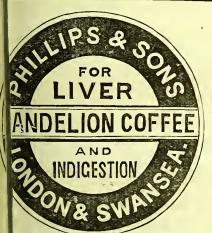
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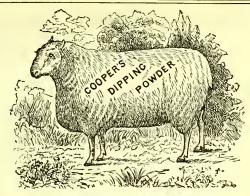
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ENO'S "FRUIT SALT,"

"FRUIT SALINE," OR "FRUIT POWDER."

ENO V. STEPHENS IN THE COURT OF CHANCERY.

Shorthand Writer's Notes of Vice-Chancellor Bacon's Summing-up and Judgment.

Sir HENRY JACKSON, Q.C., on proceeding to sum up in detail on the evidence and arguments in the case, was stopped by the VICE-CHANCELLOR in the following words:—

Sir Henry Jackson, I do not think I ought to trouble you. The case has been discussed at very great length. I confess somewhat to my astonishment when Mr. Hemming declined to adopt the evidence as it was before the Court of Appeal, and put the Plaintiff to prove by the same evidence the same facts which had been proved before, I was nnder the impression that he meant to call witnesses on his own hehalf. If that had been, as it probably may have heen his intention at that time, there would have been a reason perhaps for repeating over again at very great length and considerable expense, of course to somebody, the evidence upon which the Court of Appeal had acted—I say nothing about what was done in this Court, but the Court of Appeal had acted upon that evidence. The case, however, concludes, and no evidence wbatever is adduced by the Defendant—not even his own statement in his Defence is verified by his own affiliavit. What is to he done with a case like that? The whole principle of the case Sir Henry Jackson, I do not think I ought to trouble you. The case has —not even his own statement in his Defence is verified by his own affidiavit. What is to he done with a case like that? The whole principle of the case was decided upon the first occasion. The Court of Appeal thought it right to adopt that restriction which I had thought it right to adopt, not to extend the Injunction further than the then present exigency of the occasion required. Not one word of the judgment of the Court of Appeal shows that there should be any restriction, or that there should be any restriction when the case came on for hearing. Now it comes on for hearing upon precisely the same evidence, and the evidence, among other things is, that in the circular which accompanies this bottle of Salt, the

shows that there should be any restriction, or that there should be any restriction when the case came on for hearing. Now it comes on for hearing upon precisely the same evidence, and the evidence, among other things, is, that in the circular which accompanies this bottle of Salt, the words to which the Plaintiff particularly objects are repeated by the Defendant, and repeated by means of copying the Plaintiff's circular. Mr. Giffard says nobody huying the bottle would think of looking at the circular, for it is enclosed in the wrapper, and not even visible to the eye. But the case is one in which the Plaintiff complains of the general similarity and the general appearance of the names which are used by the Defendant, and if a purchaser entertained any doubt, if he was puzzled for a moment between "Vinous" or "Vinous," and Eno's—the sounds being, in one mode of pronunciation, very much alike—if he opened the wrapper and read the circular he would say, My doubts are removed; this is what I want—I want Fruit Saline, and here it is—the circular says it is "Fruit Saline."

The Defendant in his statement at the end of the fourth paragraph says he has not "at any time since the month of Angust, 1877, used the words Fruit Saline, or Fruit Powder, in any label or advertisement or otherwise in connection with the sale of the said preparation." Under the old system if a defendant had put in his answer, as he must, upon oath, he might perhaps have read that passage and said "the Plaintiff's allegation in that respect is denied." The Defence is not put in on oath and the Defendant declines to pledge his oath to that fact. But it does not rest there; for the evidence is clear and conclusive that after the month of Angust, 1877, when the Plaintiff, not without some degree of forbearance, as it seems to me, was content to take the Defendant's word that he would not repeat that offence which the Plaintiff complained was doing him that injury which he thought he was suffering, he lodid, in spite of his promise, repeat that whi

Plaintiff was selling under the title which he had adopted.

Upon the general case, therefore, in my opinion, the matter is beyond all donht. It is proved that the use of the word "Fruit" with other substantives, "Saline" and "Salt," and so on, has been made by the Defendant since the time when he promised not to make it, when he admitted it was unlawful, and which I have no doubt whatever was wholly unlawful. It is said that he endeavoured to keep his promise by pasting something over the word "Fruit." Well, if that meant anything it is a plain admission of the justice of the Plaintiff's claim in that respect. But how can I consider that that is keeping his promise? Whether that pasting over was to be effectual or not would depend upon the consistency of the paster glue, or perhaps the humidity of the atmosphere or any other accident. That there

was no intention to perform his promise, I am satisfied of, and that there has been no performance of his promise I think is clear.

Upon the general case, therefore, I think the Plaintiff is entitled not only to the Injunction in the terms of the Interlocatory Order, but upon those more extensive terms which the Plaintiff asks, by his claim, should be applied to the Defendant's infringement of his rights.

those more extensive terms which the Plaintiff asks, by his claim, should be applied to the Defendant's infringement of his rights.

Then there is another subject which is so intimately connected with that that I desired to hear them both together, and I am very glad I did, because, as Mr. Giffard has just told me, that is the main question in dispute hetween the parties. For the Injunction the Defendant does not seem to care much, though be has violated it, in my opinion, plainly; but he says the question is whether there is a title to register this Trade Mark for which the Defendant proposes to apply. Now that depends upon the words of the Act of Parliament which have been used, the more important of which are "so resembling as to be calculated to deceive," That is a question not to be decided by eyesight; I am invited to lay these two devices side hy side, and, since they are not identical and since there are great differences in their external appearance, to decide that they are not calculated to deceive. To that word DECRIVE I have no right to criticise or quarrel with; it is used in the Act of Parliament, and if I were to give one sense to it, it is plainly in my indegent calculated by the Defendant, meant and intended by him, to deceive any person who is not vigilant enough either in eye or in ear to detect at once the difference between Vinous and Eno's, and the difference between Fruit Salt and any other salt. Eno's title being plainly upon his Trade Mark, Eno's Fruit Salt.

It is not, as I have said, by sight; it is not by the use of a microsope; it is by any other means of detecting more or less of resemblance that you can decide a question which the statute contemplates by using the words that I have referred to. But it is whether the Registrar, whose office it is to register, is satisfied before he performs his function by registering the mark, that the applicant's mark does so resemble as to be calculated to deceive. Can any living man doubt that it is not only calculated—that is intended—but that

deceive. Can any living man doubt that it is not only calculated—that is intended—but that it is also calculated—that is to say, meant and contrived for the purpose of deceiving—else why does he do it? The world is wide, as bas been said in the Judgment referred to, and all things in the animate and inanimate world are open to the Defendant to make a device which shall distinguish his goods from those of any other person. But the Plaintiff having appropriated to himself, and enjoyed for years a device in which the principal characteristic consists of a bunch of grapes, with a Latin motto, and the specific description which relates to Eno's Fruit Salt, the Defendant proposes to register a design in which the principal device is the stem of a vine with a hunch of grapes and some leaves, and a Latin motto around it, and it is to be called "Vinous Salt." If there was nothing in the case hut the contrast of these two things, it might, perhaps, to some persons, who trusted only to their cyes, be said there was no resemblance between them, which is the contrast of these two things, it might, perhaps, to some persons, who trusted only to their cyes, be said there was no resemblance between them, consideration; he at the Court of Appal, in the latest case that was before it—the Sheffield case—dealt with the question. The Defendant there had as good a right san phody in the world could have to stamp his own crest or coat of arms, or anything else, upon his commodities. Nobody could dispute it, and nobody, putting thetwo things together, could say they were so much alike as to deceive. Mr. Hemming insisted that the stamping, being made on a hard metal, was likely to be blurred, and the persons to be deceived. I have a very clear recollection of that case, and is mistake the device in that case for the device which the Plaintiff desired there to use. Mr. HEMMING:—Your Lordship will parlon me, I was only quoting the Master of the Rolls.

The VICE-CHANCELLOR:—I know, and have also clearly in my mind what the Master of the Ro

Other attempted infringements of J. C. ENO'S rights have been stopped by legal intervention, and J. C. ENO publishes the above Judgment in extenso in the hope of deterring all further attempts at similar piracy. He is determined, however, to take legal proceedings without further notice against any one who may hereafter seek to infringe his rights.